City of
Santa Monica

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

Final Initial Study/Mitigated Negative Declaration
Responses to Comments
Mitigation Monitoring Program

November 2020

City of Santa Monica
Public Works Department
1685 Main Street
Santa Monica, California 90401

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Changes to the Draft IS/MND

This document provides minor revisions to Draft Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project Initial Study/Mitigated Negative Declaration (IS/MND) (State Clearinghouse No. 20200070129). The minor revisions do not change the conclusions of the Draft IS/MND. The corrections and additions are organized by section and page number of the Draft IS/MND. New text additions are shown in underline format, and deletions are shown in ~~strikeout~~ format.

Section 3.4, Biological Resources

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

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed Project would be required to comply with the federal Endangered Species Act, federal Migratory Bird Treaty Act (MBTA), California Endangered Species Act, California Fish and Game Code, and the SMMC, Chapter 7.40 Tree Code. However, the proposed Project is in an already developed and highly urbanized site with ornamental landscape. The proposed Project does include the removal of up to nine ficus trees at Ishihara Park. Per Section 7.40.001, the City maintains the discretion and ability to plant, maintain, and remove public trees ~~within the public right of way~~. Additionally, coordination would be conducted with the City's Community and Cultural Services Division and the City's Urban Forester to provide replacement and/or planting of new trees as necessary. Therefore, as a City project, the proposed Project would not conflict with any local policies or ordinance regarding trees. Impacts would be less than significant.

Section 3.10, Hydrology and Water Quality

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Groundwater

Regionally, the Project area is underlain by the Santa Monica Basin. The basin is located in western Los Angeles County and overlies the entire City of Santa Monica, Culver City, Beverly Hills, and portions of western Los Angeles. The basin has a surface area of 50.2 square miles of mostly flat to mildly hilly terrain. The basin is bounded by impermeable rocks of the Santa Monica Mountains to the north, the Ballona Escarpment (Bluffs) to the south, the Newport-Inglewood fault to the east, and the Pacific Ocean to the west. Extensive faulting within the basin results in five district subbasins including: the Arcadia subbasin, Olympic subbasin, Coastal subbasin, ~~Chamock~~ Charnock subbasin, and the Crestal subbasin (City of Santa Monica 2016c).

Section 3.13, Noise

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

Olympic Well Field Restoration

Construction

Less-Than-Significant Impact With Mitigation Incorporated. SMMC Section 4.12.110(a) permits construction activity from 8:00 a.m. to 6:00 p.m. on weekdays (Monday to Friday) and 9:00 a.m. to 5:00 p.m. on Saturdays. SMMC 4.12.110(b)(1) permits the noise levels from construction activities, at the receiving location, during these allowable timeframes to be 20 dB louder than the usual standard for the Noise Zone (I [residential], II [commercial], III [industrial]) as defined by SMMC Section 4.12.060(a). While construction noise limits per SMMC Section 4.12.110(b)(2) apply, which allows a maximum instantaneous A-weighted, slow sound pressure level to exceed the decibel limits by 40 dBA for any period of time, and have been used as appropriate herein for the noise assessment, SMMC Section 4.12.110(d) does permit construction noise to exceed these limits but only for a limited duration: 'between the hours of ten a.m. and three p.m., Monday through Friday'. Additionally, per SMMC Section 4.12.110, "a permit may be issued authorizing construction activity during the times prohibited by this Section whenever it is found to be in the public interest. The person obtaining the permit shall provide notification to persons occupying property within a perimeter of five hundred feet of the site of the proposed construction activity prior to commencing work pursuant to the permit." Since the new wells are proposed to be installed near low-density housing or commercial/mixed-use areas, the allowable construction noise limits would depend on the receptor location and be as follows:

Section 3.17, Transportation

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The following has been added by the City based on coordination with Caltrans regarding preparation of a Traffic Impact Analysis.

Section 15064.3 of the revised CEQA Guidelines was adopted by the Governor's Office of Planning and Research on December 28, 2018, and states that vehicles miles traveled (VMT) is the appropriate measure of transportation impacts. Section 15064.3(c) also states that the provisions of this section shall apply prospectively (i.e., only applicable to new projects after date of adoption) and must be implemented statewide by July 1, 2020. Pursuant to CEQA Guidelines Section 15064.3, the City adopted VMT thresholds on June 9, 2020 (City of Santa Monica 2020a). The City's VMT thresholds indicates that utility and government uses of 50,000 square feet or less or those that result in less than 50 net new full-time equivalent employees would not result in significant VMT impacts. The proposed Project is a utility project that would be less than 50,000 square feet and would not generate an increase in employees. Therefore, temporary construction-related trips and nominal operations and maintenance trips would be minimal, resulting in less than significant VMT impacts. No VMT analysis is necessary. Nonetheless, an assessment of construction-related trips for short-term construction has been prepared and included in a new Appendix E to the IS/MND to discuss temporary effects to the nearby roadways for informational purposes.

Section 4, References and Preparers

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City of Santa Monica. 2020a. Adoption of Resolution of New CEQA Transportation Guidelines & Thresholds (Staff Report 3988). July 9, 2020. http://santamonicacityca.iqm2.com/Citizens/Detail_LegiFile.aspx?Frame=&MeetingID=1229&MediaPosition=&ID=3988&CssClass=.

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
1,2-DCE	1,4-dioxane and cis and trans-1,2-dichloroethylene
1,2,3-TCP	1,2,3-trichloropropane
µg/L	micrograms per liter
acre-feet/yr	acre-feet per year
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APN	Assessor's Parcel Number
APSA	Aboveground Petroleum Storage Act
AWTF	Advanced Water Treatment Facility
BAP	Bergamot Area Plan
bgs	below ground surface
BMP	best management practice
CAAQS	California Ambient Air Quality Standards
CAAP	Climate Action and Adaption Plan
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CBC	California Building Code
CCR	California Code of Regulations
CCRO	Closed Circuit Reverse Osmosis
CEQA	California Environmental Quality Act
CERS	California Environmental Reporting System
CGS	California Geological Survey
CH4	methane
City	City of Santa Monica
CO	carbon monoxide
CO2	carbon dioxide
CO2e	carbon dioxide equivalent
CRHR	California Register of Historical Resources
dB	decibel
dBA	A-weighted decibel
DPM	diesel particulate matter
DWR	California Department of Water Resources
EIR	environmental impact report
EO	Executive Order
ESL	environmental screening level
E Line	Exposition Line
FEMA	Federal Emergency Management Agency
GAC	granulated activated carbon
GHG	greenhouse gas
gpm	gallons per minute
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
GWP	global warming potential

Acronym/Abbreviation	Definition
HARP2	Hotspots Analysis and Reporting Program Version 2
HFC	hydrofluorocarbon
HIC	Chronic Hazard Index
HMBP	hazardous material business plan
HMCP	Hazardous Materials Contingency Plan
HMP	Hazard Mitigation Plan
HRA	health risk assessment
HVAC	heating, ventilation, and air conditioning
I	Interstate
ips	inches per second
IS	initial study
kBtu	thousand British thermal units
kg	kilogram
kWh	kilowatt-hour
LACDPW	Los Angeles County Department of Public Works
LACM	Los Angeles County History Museum
LADWP	Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
Leq	equivalent continuous sound level
LID	Low-Impact Development
Lmax	instantaneous maximum noise level
LOS	level of service
LST	localized significance threshold
LUCE	Land Use and Circulation Element
MBTA	Migratory Bird Treaty Act
MCL	maximum contaminant level
Metro	Metropolitan Transportation Authority
mgd	million gallons per day
MICR	Maximum Individual Cancer Risk
MM-	mitigation measure
MND	Mitigated Negative Declaration
MT	metric ton
MWD	Metropolitan Water District of Southern California
N2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NF3	nitrogen trifluoride
NFA	no further action
NO2	nitrogen dioxide
NOx	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
O3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
OPR	Governor's Office of Planning and Research
PCB	polychlorinated biphenyls

Acronym/Abbreviation	Definition
PCE	perchloroethylene
PFC	perfluorocarbon
PM10	coarse particulate matter
PM2.5	fine particulate matter
ppm	parts per million
ppt	parts per trillion
PPV	peak particle velocity
PRC	Public Resources Code
PRIMP	Paleontological Resources Impact Mitigation Program
Project	Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project
RO	reverse osmosis
ROW	right-of-way
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SF6	sulfur hexafluoride
SLF	Sacred Lands File
SGMA	Sustainable Groundwater Management Act
SM	Santa Monica Well
SMMC	Santa Monica Municipal Code
SO2	sulfur dioxide
SOx	sulfur oxides
SoCalGas	Southern California Gas Company
SPCC	Spill Prevention, Control, and Countermeasure
SVP	Society of Vertebrate Paleontology
SWIP	Sustainable Water Infrastructure Project
SWMP	Sustainable Water Master Plan
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TCE	trichloroethylene
TCP	Traffic Control Plan
TDM	transportation demand management
VMT	vehicle miles traveled
VOC	volatile organic compound
WEAP	Worker Environmental Awareness Program
WTP	Water Treatment Plant

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1 Introduction

1.1 Project Overview

The proposed Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project (Project) is intended to enhance sustainability of the City of Santa Monica's (City's) local water supply through developing alternative water supplies and expanding local groundwater supplies. The proposed Project would further reduce the City's reliance upon purchased imported water from the Metropolitan Water District of Southern California (MWD), with the objective of maximizing local water resources. The Project would accomplish this goal through the restoration of the Olympic Well Field's pumping capacity, expansion of local groundwater production and concurrent reduction of imported water supply, conveyance of the extracted groundwater to a new Olympic Advanced Water Treatment Facility (co-located at the Arcadia Water Treatment Plant [WTP]) via a new dedicated pipeline, and upgrades to the Arcadia WTP with an innovative Reverse Osmosis (RO) concentrate treatment technology to enhance production efficiency. Upon Project completion, the overall raw water treatment capacity of the Arcadia WTP would be expanded from approximately 10 million gallons per day (mgd) or 11,300 acre-feet per year (acre-feet/yr) to approximately 13 mgd, or 14,700 acre-feet/yr.

The proposed Project is comprised of three primary elements, including: (1) Olympic Well Field Restoration, (2) Olympic Pipeline, (3) Olympic Advanced Water Treatment Facility (AWTF) and Arcadia WTP Production Efficiency Enhancement and Expansion (Arcadia WTP Expansion).

- The Olympic Well Field Restoration component involves equipping two new injection wells (Santa Monica Well [SM]-10i and SM-11i) and two new domestic groundwater production wells (SM-8 and SM-9) in the Olympic Well Field. Lateral pipeline connections from the groundwater production wells and the injection wells to existing pipelines would be constructed within the public right-of-way. The production wells would connect to the proposed Olympic Pipeline and the injection wells would connect to recycled water pipelines. Additionally, a new recycled water pipeline would connect SM-11i to a planned recycled water pipeline at the Santa Monica City Yards.
- The Olympic Pipeline component involves construction of a new 16-inch water transmission pipeline to transport water extracted from the Olympic Well Field in the City of Santa Monica to the new Olympic AWTF in the City of Los Angeles.
- The Olympic AWTF and Arcadia WTP Expansion involves two interrelated components that would be co-located at the Arcadia WTP. The proposed Olympic AWTF includes new treatment process equipment designed to treat key contaminants from the Olympic Well Field. The existing Arcadia WTP would be partially expanded to handle the additional flows from the Olympic AWTF. Additionally, this component includes a new innovative RO concentrate treatment technology to increase production efficiency and produce additional potable water while reducing concentrate discharges to the sewer system.

The Project is subject to environmental review pursuant to the California Environmental Quality Act (CEQA). In accordance with the CEQA Guidelines, Section 15367 (14 CCR 15367), the City is the lead agency with principal responsibility for considering the Project for approval. Discretionary and other ministerial actions required for the Project are described in Section 2.7 of this Initial Study/Mitigated Negative Declaration (IS/MND).

1.2 California Environmental Quality Act Compliance

In accordance with CEQA (Public Resources Code Section 21000, et. Seq.) and the State CEQA Guidelines, the City as the lead agency has prepared an Initial Study to determine whether the Project would result in a potentially significant environmental impact. CEQA requires that if, as a result of the Initial Study, the lead agency finds that there is evidence that any aspect of the Project may cause a significant environmental effect, the lead agency shall further find that an Environmental Impact Report (EIR) is warranted to analyze Project-related and cumulative environmental impacts. Alternatively, if the lead agency finds that there is no evidence that the Project, either as proposed or as modified to include the mitigation measures (MMs) identified in the Initial Study, may cause a significant effect on the environment, the lead agency shall find that the Project would not have a significant effect on the environment and shall prepare a Negative Declaration or Mitigated Negative Declaration (ND or MND) for the Project. Such determination can be made only if "there is no substantial evidence, in light of the whole record before the lead agency" that such an effect may occur (Section 21080(c), Public Resources Code).

Pursuant to CEQA, the City has prepared this IS/MND to evaluate the potential environmental effects of the proposed Project. This IS/MND evaluates the potential direct, indirect, and cumulative environmental effects of all environmental issues listed in Appendix G of the CEQA Guidelines. The City's Public Works Department, Water Resources Division and the Planning and Community Development Department, City Planning Division, directed and supervised the preparation of this IS/MND. Although prepared with assistance from the consulting firm Dudek, the content contained within and the conclusions drawn by this IS/MND reflect the sole independent judgment of the City. The IS/MND determined that, while the implementation of the Project could cause some potentially significant impacts on the environment, all of the Project's potentially significant impacts would be reduced to less-than-significant levels by the implementation of mitigation measures. Therefore, an IS/MND has been prepared for the proposed Project.

In accordance with Government Code Section 53091(d) and (e), the building and zoning ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water by a local agency. Therefore, any references to the building or zoning regulations of the City of Los Angeles in this document shall be considered solely within the context of evaluating the potentially significant impacts of certain portions of the Project.

1.3 Initial Study Checklist

The Project's Initial Study) has been prepared per State CEQA Guidelines, Sections 15060–15065. The State CEQA Guidelines include a suggested checklist to indicate whether a project would have an adverse impact on the environment. The checklist is found in Section 3 of this document. Following the Environmental Checklist, Sections 3.1 through 3.21 include an explanation and discussion of each significance determination made in the checklist for the Project.

For this IS/MND, the following four possible responses to each individual environmental issue area are included in the checklist:

1. Potentially Significant Impact
2. Less Than Significant Impact With Mitigation Incorporated

3. Less Than Significant Impact
4. No Impact

The checklist and accompanying explanation of checklist responses provide the information and analysis necessary to assess relative environmental impacts of the Project. In doing so, the City will determine the extent of additional environmental review, if any, for the Project.

1.4 Public Review Process

In accordance with CEQA and the CEQA Guidelines, a 60-day public review period for this IS/MND commenced on July 6, 2020 and will conclude on September 4, 2020. The IS/MND has been distributed for review to interested and involved public agencies, responsible/trustee agencies, organizations, and private individuals that have requested in writing to be informed of the proposed Project. An electronic copy of the IS/MND can be viewed at https://www.smgov.net/Departments/PublicWorks/ContentCivEng.aspx?id=9673.

In accordance with CEQA Guidelines Section 15073, the IS/MND will be available for public review for not less than 30 days, and due social distancing requirements related to the Governor's Executive Orders related to COVID-19, the City has extended the public review period to 60 days. During this review period, the public will have the opportunity to provide written comments on the information contained within this IS/MND. The City's discretionary approval/refusal of the proposed Project will also be based on the information contained in this document.

In reviewing the IS/MND, interested members of the public should focus on the sufficiency of the document in identifying and analyzing potential Project impacts on the environment, as well as the sufficiency of any mitigation measures proposed to reduce potential impacts to a less-than-significant level. Comments on the IS/MND should be submitted by the end of the 60-day public review period and must be postmarked by September 4, 2020 Please submit written comments to Mr. Omeed Pour at 1685 Main Street, Mail Stop 15, Santa Monica, California 90401.

1.5 Mitigation Measures

Prior to mitigation, Project implementation would result in potentially significant impacts to air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, noise, and transportation. However, MMs have been developed to avoid or reduce these impacts to less than significant levels. These MMs would be included in the Contractor Specifications and bid documents, as appropriate, and verified as part of the Mitigation Monitoring and Reporting Program. These MMs must be implemented to the satisfaction of the City and are listed below in Table 1-1, Mitigation Measures.

Table 1-1. Mitigation Measures

Potential Impact	Mitigation Measure
Air Quality	
On-site emissions of PM_{10} would exceed the localized significance threshold (LST) during construction activities at the Arcadia WTP and would also generate an estimated	**MM-AQ-1:** Prior to the commencement of construction activities at the Arcadia Water Treatment Plant, the City shall require its construction contractor to demonstrate that all 50-horsepower or greater diesel-powered equipment is powered with California Air Resources Board (CARB)-certified Tier 4 Interim engines. An exemption from this requirement may be granted if equipment

Table 1-1. Mitigation Measures

Potential Impact	Mitigation Measure
cancer risk above the 10 in 1 million cancer risk threshold.	with Tier 4 Interim engines are not reasonably available and the required corresponding reductions in criteria air pollutant emissions can be achieved from other combinations of construction equipment, such as using equipment with Tier 4 Final engines. Before an exemption may be granted, the City's construction contractor shall: (1) demonstrate that at least two construction fleet owners/operators in Los Angeles County were contacted and that those owners/operators confirmed Tier 4 Interim equipment could not be located within Los Angeles County during the desired construction schedule; and (2) the proposed replacement equipment has been evaluated using CalEEMod and documentation provided to the City to confirm that Project-generated emissions do not exceed applicable localized significance thresholds (LST) for nitrogen dioxide (NO_2), carbon monoxide (CO), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and the SCAQMD carcinogenic (cancer) risk threshold. If these requirements cannot be met, construction activities at the Arcadia Water Treatment Plant shall be postponed until CARB-certified Tier 4 Interim engines are available for use.
On-site emissions of PM_{10} would exceed the localized significance threshold (LST) during construction activities at the Arcadia WTP.	**MM-AQ-2:** Prior to the commencement of construction activities at the Arcadia Water Treatment Plant, the City shall require its construction contractor to water any exposed soils and/or soil stockpiles at least three times daily, or utilize another SCAQMD-approved dust control non-toxic agent in accordance with the manufacturer's specifications, to minimize fugitive dust during construction.
Biological Resources	
Trees and shrubs at the Ishihara Park and Arcadia WTP can potentially provide nesting and foraging for migratory birds. The removal of trees could result in direct or indirect impacts to nesting birds.	**MM-BIO-1:** Commencement of construction activities at the Arcadia Water Treatment Plant and Olympic Well Field shall avoid the February 1 through August 31 bird nesting season to the extent feasible. If construction activities must begin within this nesting season, a survey for nesting birds shall be conducted by a qualified biologist within 7 days before commencement of construction activities. The area surveyed shall include all clearing/construction areas, as well as areas within 100 feet of the boundaries of these areas, or as otherwise determined by the biologist. If no active bird nests are identified on, or within 100 feet of the limits of the proposed disturbance area, no further action is necessary and construction activities could commence. If active nests are found during pre-construction surveys or at any time throughout the course of construction activities during the nesting bird season, all clearing/construction activities within a minimum 100 feet of the nest shall be postponed until a wildlife biologist has identified the nesting species. If the bird species is not protected under the Migratory Bird Treaty Act (MBTA) and/or the California Fish and Game Code, no further action is required and construction activities may proceed. If the avian species is protected under the MBTA and/or the California Fish and Game Code, a minimum buffer zone shall be established by the qualified biologist based on the type of bird/raptor species identified and the construction buffer shall be established on site through the erection of cones/flagging/fencing to clearly delineate the protection zone. All construction activities shall avoid this protection zone until a qualified biologist has confirmed that the nest(s) is no longer active and the nest is vacated, and there is no evidence of second nesting attempts.

Table 1-1. Mitigation Measures

Potential Impact	Mitigation Measure
Cultural Resources	
The South Central Coastal Information Center records search identified one historic-era archaeological site (P-19-004666/CA-LAN-4666) approximately 250 feet southwest of the proposed location of well SM-10i. Additionally, it is unknown whether the Olympic Pipeline may yield intact subsurface archaeological deposits. Further, two archaeological sites were identified approximately 0.18-mile northeast of the Arcadia WTP. Therefore, there is a potential to encounter both prehistoric and historic-era archaeological deposits subsurface during Project construction.	**MM-CUL-1**: Prior to commencement of construction activities at the Olympic Well Field, Olympic Pipeline, and Arcadia Water Treatment Plant, the City's construction contractor and construction personnel shall attend and complete a Workers Environmental Awareness Program (WEAP) training conducted by a qualified archaeologist. The WEAP training shall provide: (1) the types and characteristics of archaeological materials that may be identified during construction and explain the importance of and legal basis for the protection of significant cultural resources; (2) proper procedures to follow in the event that cultural resources or human remains are uncovered during ground-disturbing activities, including procedures for work curtailment or redirection; and (3) protocols for the contact of the site supervisor and archaeological monitor upon discovery of a resource. **MM-CUL-2:** If archaeological resources (i.e., sites, features, or artifacts) are exposed during construction activities of any components of the proposed Project at the Olympic Well Field, Olympic Pipeline, and Arcadia Water Treatment Plant, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeological principal investigator, meeting the Secretary of the Interior's Professional Qualification Standards for Archaeology, can evaluate the significance of the find and determine whether or not additional study is warranted. This work exclusion buffer may be adjusted based on the recommendation of the archaeological principal investigator. Reservation in place of any unanticipated resource should be considered the preferred approach wherever possible, and the feasibility of avoidance should be discussed with the City prior to moving forward with excavation or other potentially destructive evaluation efforts. Should it be required, temporary flagging may be installed around this resource in order to avoid any disturbances from construction equipment. Depending upon the nature of the find, the archaeological monitor in correspondence with the qualified archaeological principal investigator may simply record the find to appropriate standards (thereby addressing any data potential) and allow work to continue. If the qualified archaeological principal investigator determines the discovery to be potentially significant under California Environmental Quality Act (CEQA) or City regulations, additional efforts in conformance with requirements set forth in CEQA Section 21083.2 related to unique archeological resources shall be conducted, such avoidance of the resources, preservation in place, additional testing, and/or data, prior to allowing construction to proceed in the area of the find. **MM-CUL-3:** During construction activities at the Olympic Well Field and Arcadia Water Treatment Plant that require earthwork below five feet or disturbance of native soils, periodic archaeological monitoring shall be conducted. The frequency and duration of the periodic monitoring shall be determined by a qualified archaeological principal investigator based on inspection of exposed subsurface soils and their observed potential to contain intact cultural deposits or material. The archaeological monitor shall have the authority to temporarily halt work to inspect areas as needed for potential cultural material or deposits. In the event that archaeological resources are exposed

Table 1-1. Mitigation Measures

Potential Impact	Mitigation Measure
	during construction activities for the proposed Project's MM-CUL-2 shall be followed. The archaeological monitor shall be responsible for maintaining daily monitoring logs during monitoring. Following the completion of construction, an archaeological monitoring report with the results of the cultural monitoring program shall be submitted to the City for review and approval. Once approved, the final report will be filed with the South Central Coastal Information Center.
Geology and Soils	
Due to the presence of paleontologically sensitive sediments below the relatively thin veneer of Holocene alluvium, the Natural History Museum of Los Angeles County recommended paleontological monitoring of any excavations of below a depth of five feet below ground surface in undisturbed native sediments.	**MM-GEO-1:** Prior to commencement of any grading activity below a depth of five feet at the proposed recycled water pipeline for the Olympic Well Field Restoration, Olympic Pipeline, and Arcadia Water Treatment Plant, the City of Santa Monica shall retain a qualified paleontologist in accordance with the guidelines of the Society of Vertebrate Paleontology (SVP 2010). The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the proposed Project. The PRIMP shall be consistent with the SVP (2010) guidelines and shall outline requirements for preconstruction meeting attendance and worker environmental awareness training, adequate spot-check monitoring within the proposed Project site based on construction plans and/or geotechnical reports, procedures for adequate paleontological spot-check monitoring and discoveries treatment, paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management The PRIMP shall include protocols for spot-checking significant ground-disturbing activities below a depth of five feet below the ground surface or five feet below the depth of artificial fill in areas mapped as Holocene alluvium. At a minimum, the PRIMP shall require that if paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Upon completion of the paleontological monitoring program, the qualified paleontologist shall prepare a final monitoring report documenting the results of the mitigation program. This report should include discussions of the methods used, stratigraphic section(s) exposed, fossils collected, and significance of recovered fossils.
Hazards and Hazardous Materials	
Due to some Project components located within the Olympic Well Field Contamination Plume and due to the age of the structures at the Arcadia WTP, exposed water and soil may contain hazardous levels of contamination, and impacts associated with the transport, use, or disposal of hazardous materials are potentially significant.	**MM-HAZ-1:** Prior to commencement of Project-related demolition or earth-moving activities at the Olympic Well Field and Olympic Pipeline, a Hazardous Materials Contingency Plan (HMCP) shall be developed and provided to the City for review and approval. The HMCP shall address the potential impacts related to disturbance of potentially contaminated soil, soil vapor and/or groundwater. The HMCP shall clearly identify known areas of contamination that overlap with the Project components. The HMCP shall include training procedures for construction crews for the identification, assessment, characterization, management, and proper disposal of hazardous constituents, materials, and wastes, in accordance with all applicable state and local regulations. If impacted soils or groundwater are encountered during excavation activities, the contaminated soils and/or groundwater shall be

Table 1-1. Mitigation Measures

Potential Impact	Mitigation Measure
	managed and disposed of in accordance with local and state regulations. The HMCP shall include health and safety measures, which may include periodic work breathing zone monitoring, monitoring for volatile organic compounds using a handheld organic vapor analyzer, and/or other equally effective measures in areas where known contamination is present. The City of Santa Monica or its designee shall implement the HMCP during all construction activities for the proposed Project that require ground disturbance in areas of known contamination, as outlined in the HMCP.
Construction that removes road surfaces may create wastes that contain hazardous levels of chromium and lead. Additionally, since the Arcadia WTP has been in operation since at least the 1950s, there is a potential for hazardous building materials, including lead, asbestos, PCBs, and universal wastes, to be present. Therefore, impacts associated with the transport, use, or disposal of hazardous materials are potentially significant.	**MM-HAZ-2:** Prior to commencement of demolition or construction activities at the Olympic Pipeline or Arcadia Water Treatment Plant, a hazardous materials site survey shall be conducted. The survey shall be conducted on the proposed Olympic Pipeline alignment to identify yellow traffic striping (if it is going to be disturbed/removed as part of construction) that may contain lead chromate, and on the Arcadia WTP buildings to be disturbed/demolished for asbestos, lead-based paint, polychlorinated biphenyls, and universal wastes. Following results of the hazardous materials survey, demolition or renovation plans and contract specifications shall incorporate abatement procedures for the removal of materials containing asbestos, lead, lead chromate, polychlorinated biphenyls, and universal waste items, as required. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency, Occupational Safety and Health Administration, California Occupational Safety and Health Administration, and the South Coast Air Quality Management District.
Noise	
Installation of the Olympic Pipeline and construction at the existing Arcadia WTP could create temporary noise at levels exceed construction noise limits pursuant to Santa Monica Municipal Code Section 4.12.110 and Los Angeles Municipal Code 112.05.	**MM-NOI-1:** The City of Santa Monica shall ensure that the construction contractor(s) contract specifications for all Project-related activities at the Olympic Well Field (including the recycled water pipeline), Olympic Pipeline, and Arcadia Water Treatment Plant include the following requirements during construction activities: • Construction hours must be conducted in compliance with the applicable local regulations for the project component within each jurisdiction with respect to allowable timeframes and days of the week (including weekends and holidays). Noise from construction activities in the City of Santa Monica shall meet the standard of 80 or 85 dBA Leq over any 15-minute period, depending on the SMMC 4.12.060 Noise Zone. Noise from any operating powered equipment associated with the construction activities in the City of Los Angeles shall meet the standard of 75 dBA Leq at 50 feet over any 15-minute period. • Construction-related activities during nighttime hours (as defined by local regulation) would require a permit pursuant to Santa Monica Municipal Code Section 4.12.110 and/or would require permission from the Executive Director on behalf of the Board of Police Commissioners pursuant to Los Angeles Municipal Code Section 41.40(b). • All idling (i.e., engines running) equipment shall be kept to a minimum. • The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be used for safety warning purposes only.

Table 1-1. Mitigation Measures

Potential Impact	Mitigation Measure
	• Communication with local residents shall be maintained prior to and during construction. Specifically, the local residents shall be informed of the schedule, duration, and progress of the construction and shall be provided contact information (e.g., a telephone hotline and/or email address) for noise- or vibration-related complaints. The City shall establish a process to investigate these complaints in a timely manner and, if determined to be valid, detail efforts to provide a timely resolution and response to the complainant—with copy of outcome description documented in a log for the duration of the construction activities. • All noise-producing equipment and vehicles using internal combustion engines shall be equipped with exhaust mufflers (or comparable noise-reducing exhaust flow treatments); air-inlet silencers; and, hoods, shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specifications. Mobile or fixed "package" equipment (e.g., arc-welders, air compressors, generators, etc.) shall be equipped with shrouds and noise control features that are readily available for that type of equipment. • Usage of construction equipment shall be properly phased, scheduled, and positioned, so that no combination of concurrently operating equipment would cause an exceedance of the noise limit at a receptor location. In addition to the measures listed above, site-specific requirements for activities for the Arcadia WTP also include: • Concrete saws anticipated for demolition of existing on-site features (buildings, pavement, concrete slabs, etc.) shall feature commercially-available low-noise blades and portable exterior shrouds (e.g., temporary sound blankets or comparable barriers or enclosures) that can move with the equipment so as to consistently control noise emission from the operating equipment and its impact on the work surface and thereby meet the aforementioned noise limit.
Transportation	
During construction, short-term transportation-related hazards may be introduced due to the presence and use of construction vehicles and equipment including; temporary lane closures, temporary driveway blockages, temporary loss of parking, and temporary disruptions to traffic, transit, bicycle, and pedestrian movement especially in and around the pipeline alignment along Arizona Avenue, Texas Avenue, Saltair Avenue, and Berkeley Street.	**MM-TRAF-1:** Prior to the start of any Project-related construction at the Olympic Well Field and Olympic Pipeline, the City shall develop and implement a Project-specific Traffic Control Plan (TCP). The TCP shall be stamped and signed by a licensed Traffic Engineer or Civil Engineer in the State of California. The TCP shall be prepared in accordance with applicable regulations and standards, including the California Manual on Uniform Traffic Control Devices, and approved by all regulatory agencies having jurisdiction over the work locations shown in the TCP, including the City of Santa Monica and City of Los Angeles.

2 Project Description and Environmental Setting

2.1 Project Background

2.1.1 2018 Sustainable Water Master Plan

The City's Water Resources Division provides treatment and distribution of drinking water to residents and other users within its boundaries. As of 2019, the City services approximately 18,000 metered customers with a current average annual water demand of about 11,600 acre-feet/yr. Approximately 50% to 60% of the City's current water supply is derived from local groundwater resources, with the remainder supplied by imported water purchased from the MWD. The City is a charter member of MWD, which serves wholesale treated water to the City imported from the Colorado River Aqueduct and the State Water Project.

Given the growing statewide challenges associated with maintaining a safe and reliable water supply, the Santa Monica City Council in 2011 directed staff to develop a water self-sufficiency plan with the goal of meeting 100% of Santa Monica's water demand using local water sources. In turn, staff developed a Sustainable Water Master Plan (SWMP) outlining a pathway to reach water self-sufficiency, which was adopted by City Council in October 2014. In 2015, the City responded to the statewide emergency drought conditions with an aggressive water conservation effort that yielded approximately 18% decrease in water demand, with the intention of continuing city-wide conservation as additional programs are implemented.

Subsequent to the completion of the 2014 SWMP, the City obtained additional information regarding the treatment feasibility for the Olympic Well Field and production efficiency enhancements for the Arcadia WTP. Other work completed included an updated preliminary Sustainability Yield Assessment estimate of the local groundwater basin, drilling exploratory water wells to evaluate potential new local water production, completion of technical studies to evaluate the cost and viability of increasing the production efficiency of the Arcadia WTP, evaluation of impacts of new State drinking water laws on groundwater extraction, and evaluation of cost and viability of additional water conservation programs. Additionally, the State of California adopted stringent new drinking water regulations relating to groundwater contamination in December 2017. As a result of the new information and regulations, the SWMP was updated and adopted by City Council on November 27, 2018.

As outlined in the updated SWMP, the City strives to maximize local water resources and reduce reliance on costly imported water through a combination of demand reduction, water conservation and efficiency programs, and the addition of local water supplies. The major benefits of the City achieving water self-sufficiency include: (1) long-term cost benefits to ratepayers by maximizing local water resources; (2) a more sustainable and drought-resilient water supply through a diversified water supply portfolio; and (3) a reduced water supply energy footprint through

conservation and locally sourced water supplies. The SWMP includes the following key components to maximize local water resources (City of Santa Monica 2018a).

- Component 1 – Continuing and increasing water conservation efforts to permanently reduce water demand (approximately 3,100 acre-feet per year [acre-feet/yr] in water demand reduction)
- Component 2 – Develop sustainable and drought resilient alternative water supplies (approximately 2,860 acre-feet/yr)
- Component 3 – Expand local groundwater production within sustainable yield limits (approximately 2,100 acre-feet/yr)

The proposed Project has elements from Component 2 and Component 3 of the SWMP. Component 2 of the SWMP includes upgrading the Arcadia WTP with concentrate treatment technology to increase production efficiency and produce additional potable water at the existing WTP. Component 3 of the SWMP involves restoring the Olympic Well Field and expanding local groundwater production by providing advanced treatment for the contaminated groundwater basin to return Olympic Well Field to its full production capacity. One of the overarching goals of this Project is to maximize local groundwater production and produce as much potable water as possible and concurrently reduce imported MWD water supply while maintaining sustainable yield of the groundwater basin.

2.1.2 Olympic Well Field Contaminants

The Olympic Well Field plays a key role in achieving the City's water self-sufficiency goal because the Well Field could provide up to 3,200 acre-feet/yr of groundwater and is the location where purified water from the City's Sustainable Water Infrastructure Project (SWIP) would be recharged to sustain this pumping rate. The SWIP includes multiple components, including a modular reverse osmosis (RO) unit at the Santa Monica Urban Runoff Recycling Facility (SMURRF) to treat shallow brackish and saline groundwater and harvested stormwater.

Currently, the Well Field generally produces between 1,000 acre-feet/yr and 1,600 acre-feet/yr. The Olympic Well Field contains several contaminants that would require additional treatment to meet drinking water standards. The key contaminants in the Olympic Well Field include: 1,2,3-Trichloropropane (1,2,3-TCP), 1,4- Dioxane, trichloroethylene (TCE), and tetrachloroethylene (PCE). The City conducted a pilot study from 2014-2016 to evaluate treatment options for the Olympic Well Field (City of Santa Monica 2016a). The City decided against moving forward with constructing a stand-alone treatment plant at the City Yards location at 2500 Michigan Avenue or an expansion of the Arcadia WTP to treat the Olympic Well Field (without providing separate advanced treatment first to the Olympic Well Field).

Further analysis of treatment options for the Olympic Well Field was completed in 2018 due to a recently established drinking water regulation that established a maximum contaminant level (MCL) for 1,2,3-TCP at 5 parts per trillion (ppt). 1,2,3-TCP is a man-made chlorinated hydrocarbon that was historically used as an industrial solvent, cleaning and degreasing agent, and paint remover. The State Water Resources Control Board (SWRCB) established this new 5 ppt MCL and determined that granulated activated carbon (GAC) is the best available technology for treating the contamination (SWRCB 2018).

Additionally, new data on 1,4-Dioxane was available to refine the City's treatment analysis to determine if the current 1 parts per billion notification level, which serves as the anticipated future MCL, could be met once full production of the Olympic Well Field is restored. Key findings of the treatment analysis (City of Santa Monica 2019a) are listed below:

- 1,2,3-TCP was only detected at one well, SM-4, and the MCL of 5 ppt could be met through blending with other wells at full production capacity.
- 1,4-Dioxane is present in all three studied wells (two existing and one future replacement well) and could limit groundwater production from the Olympic Well Field to 845 acre-feet/yr or approximately 25% of the basin's total sustainable yield.
- Other contaminants, TCE and PCE, do not impact groundwater production from the Olympic Well Field as they would be removed through existing treatment processes at the Arcadia WTP.

To maximize groundwater production from the Olympic Well Field and comply with regulation on the key contaminants of concern, the City has proposed this Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project. In order to restore the Olympic Well Field to full production capacity, the following improvements are needed: groundwater well improvements, a new dedicated pipeline that would separate groundwater from the Olympic Well Field and eliminate comingling from other groundwater well fields, and a new Olympic AWTF that would be co-located at the existing Arcadia WTP.

The proposed Project would construct the Olympic Pipeline from the Olympic Well Field to the Arcadia WTP in order to separate Olympic Well Field contaminated groundwater from the Charnock Well Field groundwater for separate treatment at the Arcadia WTP. Currently, water from the Olympic and Charnock Well Fields are combined, conveyed, and treated at the Arcadia WTP as a single source. Separation of these two groundwater sources would allow the contaminated Olympic Well Field water to have treatment that specifically targets the removal of 1,4-Dioxane. The proposed Olympic Pipeline would reduce the amount of water needing treatment since only the Olympic Well Field flows, which provides up to 3,200 acre-feet/yr, contain 1,4-Dioxane. If the Olympic Well Field flows were not separated from the Charnock Well Field, approximately 14,700 acre-feet/yr (Olympic + Charnock) would need to be treated for 1,4-Dioxane. The Arcadia WTP's treatment capacity will also be expanded and upgraded with a new RO concentrate treatment system to produce additional potable water from the existing concentrate stream that is discharged to the sewer.

2.2 Project Location

The proposed Project is located within the cities of Santa Monica and Los Angeles in the western portion of the County of Los Angeles. Figure 1, Project Location and Regional Vicinity, includes a graphic depiction of the locations of the Project components, including the boundary between the two cities. For the purposes of this discussion and throughout this IS/MND, the Project location will be discussed in three components: the Olympic Well Field Restoration shown as the yellow and red squares (within the City of Santa Monica), the Olympic Pipeline (within the cities of Santa Monica and Los Angeles) shown as the dashed line, and the Olympic AWTF and the Arcadia WTP Expansion (co-located at the Arcadia WTP) outlined in black, as well as an adjacent City-owned property that would be used for staging, located at Wilshire Boulevard and Bundy Drive (within the City of Los Angeles).

2.2.1 Olympic Well Field Restoration

The Olympic Well Field is located in the City of Santa Monica generally along the alignment of Olympic Boulevard west of Centinela Avenue and east of Cloverfield Boulevard. The locations for the proposed groundwater production wells SM-8 and SM-9, and the proposed groundwater injection well SM-10i, are within the public right-of-way median of Olympic Boulevard. Therefore, they are not located within a specific parcel or located at a specific street address. Rather, these proposed wells associated with the Olympic Well Field, as well as the proposed pipelines that would connect the wells, are all entirely located within the Olympic Boulevard right-of-way, which is one of the City's key east-west boulevards.

Wells SM-8 and SM-9 are located within 600 feet of the newly constructed Los Angeles County Metropolitan Transportation Authority (Metro) Division 14, Operations and Maintenance Facility, which is a 9.7-acre and 95,000 square foot facility that provides rail car maintenance services light rail associated with the Exposition (E) Line. The E Line rail tracks are within 100 feet of SM-10i and SM-8, and within 300 feet of SM-9. Well SM-8 would be located approximately 1,400 feet east of SM-10i and west of the intersection of Olympic Boulevard and Stewart Street near the 26th Street Arts Center in the City of Santa Monica. A new 12-inch pipeline would be constructed in the median to connect SM-8 to an existing pipeline within Stewart Street. Figure 2A, Well SM-8 Location and Vicinity, provides and overview of the site and immediately surrounding areas. Well SM-9 would be located approximately 1,700 feet east of SM-8 and west of the intersection of Olympic Boulevard and Centinela Avenue near the New Roads Middle School in the City of Santa Monica. SM-3 is an existing well that would be decommissioned and is located approximately 100 feet north of the proposed SM-9 location. A new 12-inch pipeline would be constructed in the median to connect the new SM-9 to the pipeline at the decommissioned SM-3. Figure 2B, Wells SM-9 and SM-3, Location and Vicinity, provides and overview of the site and immediately surrounding areas.

Well SM-10i would be located west of the intersection of Olympic Boulevard and 26th Street near the Water Garden Office Park in the City of Santa Monica. Figure 2C, Well SM-10i Location and Vicinity, provides an overview of the site and immediately surrounding areas. SM-10i would connect to an existing 6-inch line to the south of the Olympic Boulevard median. A photograph of the typical injection well, which would be similar in design and scale to the proposed SM-10i, is included in Figure 2C.

Access to these sites for both construction activities and ongoing maintenance would be via Olympic Boulevard. There is no on-site parking at the well sites, therefore, construction vehicles and City maintenance vehicles would temporarily park in the median of Olympic Boulevard or in adjacent areas for street parking. Temporary staging areas for equipment and vehicles during construction would be located adjacent to the new well sites within the medians.

Additionally, there may be a proposed groundwater injection well SM-11i constructed at the eastern end of Ishihara Park, located north of Exposition Boulevard and west of Dorchester Avenue (2909 Exposition Park). Figure 2D, Well SM-11i Location and Vicinity, provides an overview of the site and immediately surrounding area. A photograph of the typical injection well, which would be similar in design and scale to the proposed SM-11i, is included in Figure 2D. Access to this well location is provided by either Stewart Street or Centinela Avenue. This site is designated and zoned as Mixed- Use Creative (City of Santa Monica 2017). Construction vehicles and City maintenance vehicles would temporarily park along the roadway on a first come, first serve basis, with staging areas for construction located at Ishihara Park. As shown in Figure 1, a new recycled water pipeline would be constructed in the roadway of Exposition Boulevard and Stewart Street to connect SM-11i to the planned recycled water pipeline at the Santa Monica City Yards, located at 2500 Michigan Avenue in the City of Santa Monica.

2.2.2 Olympic Pipeline

As shown in Figure 1, and listed in Table 2-1, the proposed Olympic Pipeline alignment would connect an existing pipeline within Nebraska Avenue to the Arcadia WTP. The pipeline alignment and associated trenching would be entirely contained within City-owned property and within publicly owned right-of-way within the cities of Santa Monica and Los Angeles. Trenching depth is anticipated to be approximately 8 feet to the bottom of the trench in areas where it is required to avoid other utilities beneath the roadways, and approximately 4.5 to 6 feet in depth for most of the alignment.

Table 2-1. Olympic Pipeline Alignment

Location	Length (linear feet)
City of Santa Monica	
Berkeley Avenue (from Nebraska Avenue to Colorado Avenue)	1,365
Colorado Avenue	80
Berkeley Avenue (from Colorado Avenue to Arizona Avenue)	2,035
Arizona Avenue (from Berkeley Avenue to Centinela Avenue)	765
City of Los Angeles	
Texas Avenue (from Centinela Avenue to Saltair Avenue)	1,990
Saltair Avenue	330
Total	**6,565**
Alternate alignment via Bundy Drive	*(reduction of ~ 600 linear feet)*

Source: Figure 1, Project Location and Regional Vicinity

2.2.3 Olympic Advanced Water Treatment Facility and Arcadia Water Treatment Plant Expansion

The Olympic AWTF and the Arcadia WTP Expansion would be co-located at the Arcadia WTP. The Arcadia WTP encompasses a 209,957 square foot (4.8-acre) parcel located at 1228 South Bundy Drive in the West Los Angeles Community Plan Area of the City of Los Angeles. Figure 3, Arcadia Water Treatment Plant Site, provides an overview of the existing property and identifies the on-site buildings and immediately surrounding land uses. The site is identified as Los Angeles County Assessor's Parcel Number (APN) 426-300-3270 and is zoned [Q]PF-1XL (Qualified Public Facilities in Height District 1, Extra Limited), with a General Plan land use designation of "Public Facilities". This location is approximately 1,250 feet east of the eastern limit of the City of Santa Monica. The facility is bound on the northwest by a northeast-southwest traveling alleyway that runs parallel to Wilshire Boulevard and connects Saltair Avenue and Bundy Drive; bound on the northeast by Saltair Avenue; bound on the southeast Texas Avenue; and bound on the southwest by Bundy Drive.

The adjacent property that would be used for staging includes APNs 426-300-3271, -3272, and -3273, which total 10,556 square feet (0.24-acre) and are zoned [Q]C2-1L-CDO (Qualified Commercial in Height District 1, Limited) within the West Wilshire Boulevard Community Design Overlay (CDO), with a General Plan land use designation of "Community Commercial".

Regional access to the Arcadia WTP is via the Interstate (I) 405, which is located approximately 1-mile to the northeast, exiting the Wilshire Boulevard off-ramp.

2.3 Project Objectives

The Project's specific objectives are as follows:

1. Maximize City of Santa Monica local water supplies to reduce reliance on costly imported water.
2. Ensure a high-quality, safe, and reliable water supply for City water customers.
3. Restore the Olympic Well Field to full production capacity by providing a new advanced water treatment facility to treat the contaminated Olympic Well Field groundwater basin.

2.4 Existing Conditions and Settings

2.4.1 On-Site Conditions

Olympic Well Field Restoration

The Olympic Well Field is one of the five sub-basins within the Santa Monica Groundwater Basin. As previously described in Section 2.1.2, the Olympic Well Field Restoration was identified as a key element to help the City achieve its water self-sufficiency goals. The proposed groundwater production wells SM-8 and SM-9, and the proposed groundwater injection well SM-10i, would be located within the public right-of-way median of Olympic Boulevard. As previously discussed, Well SM-10i would be located west of the intersection of Olympic Boulevard and 26th Street; well SM-8 is located west of the intersection of Olympic Boulevard and Stewart Street; and well SM-9 is located west of the intersection of Olympic Boulevard and Centinela Avenue. The existing median separates the two-lane Olympic Boulevard and is grass-covered. The median has curb cuts on all sides, and is continuous from Cloverfield Boulevard to 26th Street, then 26th Street to Stewart Street, and then Stewart Street to Centinela Avenue. There are some aboveground utility structures visible within the median along with street signage. Due to its location within the right-of-way, the median is not accessible to the public. However, there are two existing paved portions of the median west of the intersection of Olympic Boulevard and Centinela Avenue (near well SM-9), which could provide vehicle parking for city-owned vehicles.

The proposed groundwater injection well SM-11i is located at the eastern end of Ishihara Park. Ishihara Park, completed in 2017, is a City of Santa Monica Public Park and includes walkways, community gardens, and community amenities for the public (City of Santa Monica 2020b). The proposed groundwater injection well would be located within an area that currently contains mature ficus trees, set back approximately 40 feet back from Exposition Boulevard. There are currently no existing recreational uses within the proposed well location. The new recycled water pipeline would be within the roadway from SM-11i at the eastern end of Ishihara Park at Exposition Boulevard to Stewart Street.

Olympic Pipeline

The entire Olympic Pipeline would be approximately 6,565 linear feet beneath the streets from Nebraska Avenue in the City of Santa Monica to the existing Arcadia WTP. The proposed Olympic Pipeline would be constructed beneath existing paved roadways (Arizona Avenue, Berkeley Avenue, Colorado Avenue, Texas Avenue) that are within the City of Santa Monica and City of Los Angeles right-of-way (see Table 2-1 in Section 2.2.2).

Olympic AWTF and Arcadia WTP Expansion

The proposed Olympic AWTF and Arcadia WTP Expansion are co-located at the existing Arcadia WTP. The Arcadia WTP is currently capable of treating up to approximately 11,300 acre-feet/yr (10 mgd) and capable of producing 9,900 acre-feet/yr (8.9 mgd) of treated water (approximately 82% recovery or efficiency) (City of Santa Monica 2019b).

Water Supply Wells

The Arcadia WTP is currently supplied with groundwater from three primary well fields: Charnock, Arcadia, and Olympic. The primary treatment objective of the Arcadia WTP is to treat the local groundwater supply to meet all drinking water requirements and be compatible with imported water supplies. In addition, the treatment processes at the Arcadia WTP are a part of the multi-barrier treatment system for the Charnock Well Field in which groundwater from the Charnock Well Field is treated at the wellhead prior to being pumped to the Arcadia WTP. The existing Charnock wells are located southeast of the City. Three of the five groundwater wells at the Charnock Well Field are contaminated with methyl tert-butyl ether and tertiary butyl alcohol. Wellhead treatment via greensand filtration and biologically activated carbon is provided at the Charnock Well Field for the three contaminated wells. After treatment, it is blended with the other two non-contaminated wells and pumped to the Arcadia WTP for further treatment.

Wells from the Olympic and Arcadia Well Fields are currently pumped directly to Arcadia WTP for treatment. Located on site at the Arcadia WTP, Arcadia Wells 4 and 5 (ARC-4 and ARC-5), have good water quality and low production capacities. To date, no volatile organic compounds (VOC), synthetic organic compounds or 1,4-dioxane (1,4-Dx) have been detected in these two wells. Despite their good water quality supply, the production of the two Arcadia wells is limited. The Santa Monica Wells 3 and 4 (SM-3 and SM-4) are located west of the Arcadia WTP in the Olympic Sub-basin or Olympic Well Field. The water supplied by Wells SM-3 and SM-4 have historically been low in synthetic organic compound concentrations compared to Charnock, and high in TCE, PCE, 1,4-dioxane and cis and trans-1,2-dichloroethylene (1,2-DCE) concentrations. In addition to these constituents, 1,2,3-trichloropropane (1,2,3-TCP) has also been detected in SM-4. SM-3 and SM-4 are located within the median of Olympic Boulevard. SM-3 is east of Centinela and SM-4 is east of Stewart Street.

Overview of Treatment at Arcadia WTP

A general process diagram for the Arcadia WTP is provided in Section 2.5.5, Arcadia WTP Expansion. The existing treatment train at the Arcadia WTP consists of:

- **Contact Basin:** The purpose of the contact tank is to provide chlorination contact time as well as flow equalization from the incoming raw water from various groundwater wells serving the Arcadia WTP. Chlorination assists in the removal of iron and manganese prior to filtration by the greensand filters.
- **Greensand Filtration System:** Greensand filtration removes particulate iron and manganese as well as other solids from the groundwater supply to protect the RO membranes from particulate fouling, the accumulation of unwanted materials. Oxidized iron is primarily removed through filtration, while manganese is removed through adsorption on to the filter media in the presence of an oxidant such as free chlorine. There are two duty and one spare pump to feed the greensand from the contact pump and six pressure greensand filters. The current greensand hydraulic loading rate is 3.0 gallons per minute (gpm).

- **Backwash Supply Tank:** Backwashing of the greensand filters is carried out using greensand filtrate that is stored in the backwash supply tank. The backwash sequence currently in place has two steps; first a 15-minute backwash at 15 gpm/ft2 of media surface area, and second a 30-minute filter to waste step.
- **Backwash Waste Tank:** The spent backwash water from the greensand filters flow by gravity to the backwash waste tank located adjacent to the greensand filter complex. Solids from the backwash waste are kept in suspension in the waste tank through operation of two submersible mixers (MXP-1101 and MXP-1102). The fluidized spent waste is then pumped to the inclined plate separator for treatment to enable the recirculation of this spent waste to the feed of the plant. In practice, however, the spent backwash waste is pumped by gravity from the inclined plate separator directly to the sewer for discharge.
- **Backwash Plate Settler:** The purpose of the inclined plate separator is to act as a backwash water recovery system to equalize and treat spent filter backwash and filter-to-waste from the greensand filtration system so it can be recycled to the head of the plant. However, the existing Arcadia WTP inclined plate separator effluent is not recycled to the head of the plant due to water quality concerns. Instead, this spent waste is drained from the existing inclined plate separator effluent manifold and sent to sewer via a 4-inch drain.
- **RO Feed Tank:** The purpose of the RO feed tank is to provide a hydraulic buffer to equalize the flow to the RO system. This enables the RO system to operate steady state, irrespective of the operation of the greensand filters.
- **RO Transfer Pumps & Cartridge Filters:** The RO transfer pumps will convey water from the RO feed tank through the cartridge filters to the RO system. The cartridge filters serve as a final barrier for removal of any particulate matter that may be present in the RO feed tank prior to feeding the RO systems. Currently, there are four cartridge filter units (3 on duty, 1 on standby) with a flow rate of 1,900 gpm.
- **RO System:** The RO system removes dissolved minerals and salts to soften the groundwater supply. The RO system also provides a multiple barrier to other target contaminants including 1,4-Dioxane and MTBE. RO concentrate is discharged to the City's sewer system via an existing 8-inch-diameter salt water line. Currently, there are four RO units with 66 in use pressure vessels and 4 spare pressure vessels. The RO support systems are included to prevent fouling of the RO membrane during periods of shutdown. These include the RO flush system and the clean-in-place system. The cleaning is triggered when the normalized permeate flow drops by more than 10%, normalized differential pressure across any stage increases by 15%, or when the normalized salt passage increases by 10%. The RO support system is comprised of a neutralization tank, RO flush tank, and two CIP makeup tanks.
- **Decarbonator:** The Arcadia WTP air strippers are referred to as decarbonators. RO permeate from the RO system is stabilized with RO bypass flows (approximately 17% to 23% of greensand filtrate is bypassed around the RO system) and passed through decarbonation towers to stabilize pH and alkalinity of the treated water. Chemicals are added to the treated water. The decarbonators remove carbon dioxide present in the RO permeate and bypass blend thereby raising the pH of the water and reducing the need for corrosion control. The decarbonator also removes target VOCs.
- **Treated Water Storage:** A 5-million-gallon (MG) reservoir is provided to meet the City's diurnal water demands. The storage reservoir is equipped with an aeration system that removes any remaining VOCs, such as trichloroethylene, that may be present before it is distributed into the potable water system.

2.4.2 Surrounding Land Uses

Olympic Well Field Restoration

SM-8, SM-9, and SM-10i, generally located between 26th Avenue and Centinela Avenue within the Olympic Boulevard median, in the Bergamot Area Plan of the City. The uses surrounding this site includes a mix of office, commercial, rail, and arts (see Table 2-2). SM-11i is within Ishihara Park and the proposed recycled water pipeline is within the existing roadway of Exposition Boulevard and Stewart Street. The surrounding land uses include single family residential, open space, and industrial. The following describes the uses in the immediate vicinity of each proposed well locations and the recycled water pipeline:

- Well SM-8: To the north of Olympic Boulevard is creative office space for a media and production company with an associated surface parking lot that is screened by vegetation. To the east, across the intersection of Olympic Boulevard and Stewart Street, is a single-story office building to the north and the Lantana Media Campus is to the south. To the south is a two-story creative office structure for XYZ, an IT Media company, and Metro Light Rail E Line. Further south is the 26th Street Arts Center with its art gallery spaces. There are no distinct uses to the west besides the continuing median and Olympic Boulevard until 26th Street.
- Well SM-9: To the north of Olympic Boulevard is Media Park Santa Monica, a commercial property with three commercial office buildings. To the east, across the intersection of Olympic Boulevard and Centinela Avenue are several single-story commercial structures. Across Centinela Avenue, uses are within the City of Los Angeles corporate boundary. To the south of Olympic Boulevard, there is an Extra Space storage building, a single-story commercial building, and a three-story commercial building. To the west, there are commercial office spaces and the median continues west until Stewart Street.
- Well SM-10i: To the north of Olympic Boulevard is an existing office park (Water Garden) with several 6-story office buildings and landscaping. To the east, across the intersection of Olympic Boulevard and 26th Avenue, are additional office buildings to the north and the Bergamot Station Metro station to the south. To the south and west of well SM-10i is the Metro Light Rail E Line and further south is an Extra Space storage building with an associated surface parking lot.
- Well SM-11i: To the north of Ishihara Park is Metro Division 14 Operations and Maintenance Facility, a train yard inclusive of a two-story in height building and associated surface parking lot, which extends the entire length of Ishihara Park along Exposition Boulevard towards the east. To the south and west across Exposition Boulevard and Dorchester Avenue, respectively, are single-family residential uses.
- Recycled Water Pipeline: To the north of Exposition Boulevard is Ishihara Park, and to the south are single family residential uses. To the west of Stewart Street and Exposition Boulevard is the Santa Monica City Yards, Gandara Park, and Bergamot Station. The east of Stewart Street and Exposition Boulevard are single family residential uses.

Olympic Pipeline

Table 2-2. Olympic Pipeline Alignment Surrounding Land Uses

Streets	Surrounding Land Uses	Nearby Zoning/Land Use Designations
City of Santa Monica		
Berkeley Avenue (from Nebraska Avenue to Colorado Avenue)	Near Berkeley Avenue and Nebraska Avenue, there are several single-story commercial buildings located to the east and west of Berkeley Avenue. At the Berkeley Avenue and Pennsylvania Avenue intersection, the land uses transition from commercial to single- and multi-family residential uses.	Conservation: Creative; Low-Density Residential
Colorado Avenue	To the north and south of Colorado Avenue and Berkeley Avenue are single- and multi-family residential uses. Additionally, there is a religious facility on the southeast corner of Colorado Avenue and Berkeley Avenue.	Low-Density Residential
Berkeley Avenue (from Colorado Avenue to Arizona Avenue)	The land uses to the east and west of Berkeley Avenue are single- and multi-family residential uses from Colorado Avenue to Santa Monica Boulevard. At the Santa Monica Boulevard intersection, there is a multi-family residential complex to the northwest, a restaurant and retail uses to the northeast, a liquor store and restaurant to the southeast, and a car dealership to the southwest. From Santa Monica Boulevard to Arizona Avenue, the land uses are single- and multi-family residential uses.	Low-Density Residential; Mixed-Use Boulevard Low
Arizona Avenue (from Berkeley Avenue to Centinela Avenue)	To the north and south of Arizona Avenue are single- and multi-family residential uses. There is a religious facility at the northwest corner of Arizona Avenue and Centinela Avenue.	Low-Density Residential
City of Los Angeles		
Texas Avenue (from Centinela Avenue to Saltair Avenue)	To the north and south of Texas Avenue are primarily multi-family residential uses. There are a few single-family residential uses.	Multi-Family Medium
Saltair Avenue	To the west is the Arcadia WTP. To the east and south are multi-family residential uses.	Multi-Family Medium; Public Facility
Bundy Drive	To the north is Wilshire Boulevard. To the east is the Arcadia WTP. To the south are single- and multi-family residential uses. To the west, across Bundy Drive, is a 20-story office building and several multi-family residential buildings.	Multi-Family Medium; Community Commercial

Source: City of Santa Monica 2019c; City of Los Angeles 2013

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is located within the West Los Angeles Community Plan in the City of Los Angeles. The areas surrounding the Arcadia WTP are designated as Multi-Family Medium and Community Commercial in the West Los Angeles Community Plan, and are zoned R3 (Multiple Dwelling Zone) and C2 (Commercial Zone). The streets surrounding the Arcadia WTP include Wilshire Boulevard to the north, Bundy Drive to the west, Texas Avenue to the south, and Saltair Avenue to the east. The land uses surrounding the Arcadia WTP include single- and multi-family residential and commercial uses. Specifically, to the north of Arcadia WTP, across an existing alley, is an

existing restaurant, retail shops, an office building, a six-story residential building, and a City of Santa Monica-owned lot on the southeast corner of Wilshire Boulevard and Bundy Drive. To the west, across Bundy Drive, is a 20-story office building and several multi-family residential buildings. To the south of the Arcadia WTP are two single-family buildings. To the south, across Texas Avenue, there are single- and multi-family residential buildings. To the east, across Saltair Avenue there are several multi-family residential buildings, and there is a commercial/retail building at the southeast corner of Wilshire Boulevard and Saltair Avenue.

2.5 Project Components

2.5.1 Olympic Well Field Restoration

Olympic Well Field Construction

The proposed Project involves the wellhead completion of up to 4 wells (SM-8, SM-9, SM-10i, and potentially SM-11i), and the decommissioning of 1 well (SM-3). The exploratory drilling for SM-8, SM-9 and SM-10i, has already occurred to determine the hydrogeological conditions and feasibility of installing the permanent wells. Furthermore, exploratory drilling for the remaining well (SM 11i) is categorically exempt from CEQA.[1] Once exploration is complete, the proposed Project would permanently equip the groundwater wells, which is subject to CEQA. Therefore, the environmental impacts associated with the well completion activities and the long-term operational impacts of Wells SM-8, SM-9, SM-10i, and SM-11i are evaluated in this IS/MND.

As shown in Figure 4A, Engineering Plans Production Wells SM-8 and SM-9, these two groundwater production wells would be located west of the intersection of Olympic Boulevard and Stewart Street. Well SM-8 requires the construction of 500 linear feet of a new 12-inch pipeline within the median to connect SM-8 to an existing pipeline within Stewart Street. The well completion activities for Well SM-8 involve disturbance of approximately 7,600 square feet of soils within the Olympic Boulevard median to accommodate the 1-foot deep concrete slab. The maximum depth of excavation would not be greater than 5-feet. This would require export of approximately 285 cubic yards of soil. Construction of Well SM-8 would involve installation of new electrical equipment, aboveground piping structures, a new concrete pad for maintenance trucks, and a sodium hypochlorite storage vault.

Well SM-9 would be a groundwater production well located west of the intersection of Olympic Boulevard and Centinela Avenue. Well SM-9 requires the construction of approximately 80 linear feet of 12-inch well discharge line to connect with the existing 10-inch asbestos cement pipe (ACP) within the existing median via a 12-inch by 10-inch ductile iron reducer. Well SM-9 involves disturbance of approximately 7,200 square feet of soils within the Olympic Boulevard median to accommodate the 1-foot deep concrete slab. The maximum depth of excavation would not be greater than 5 feet. This would require export of approximately 450 cubic yards of soil. Construction of Well SM-9 would involve installation of a new electrical equipment, aboveground piping structures, and a concrete pad for maintenance trucks. There is an

[1] The drilling of exploratory wells were approved in the past and determined to be categorically exempt from CEQA per State CEQA Guidelines Section 15306, Information Collection (i.e., Class 6 Exemption). A Class 6 exemption allows for the basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded. Additionally, the drilling of exploratory wells is categorically exempt from CEQA per State CEQA Guidelines Section 15306, Information Collection (i.e., Class 6 Exemption). A Class 6 exemption allows for the basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded

existing electrical vault and sodium hypochlorite storage vault, which would be repurposed and protected in place. The proposed Well Field sites for Well SM-8 and Well SM-9 would all be developed with above ground artistic fencing that would visually shield the piping facilities of each well site. The artistic fencing would be approximately 6 feet high. Refer to Section 3.1, Aesthetics, for a more detailed view of the proposed aboveground structure.

As shown in Figure 2B, Well SM-3 is an existing production well located approximately 100 feet north of the proposed Well SM-9 location; SM-3 would be decommissioned. This process involves the abandonment of the groundwater well in accordance with California Department of Water Resources (DWR) Well Standards regulations and Bulletin 74-81 that governs well abandonment requirements, including the removal of all material from the well, removal of the well casing and subterranean pumping equipment, and sealing the well. The existing vault, concrete/access hatch, and concrete slab would remain as-is.

Injection Wells SM-10i and SM-11i would recharge the Olympic Well Field with purified water from the City's Sustainable Water Infrastructure Project (SWIP) to replenish local groundwater supplies and maintain sustainable yield levels. Importantly, environmental impacts associated with the production of the water from the SWIP have been covered under a separate environmental analysis prepared pursuant to CEQA (City of Santa Monica 2016b); therefore, the environmental impacts associated with the SM-10i and SM-11i well completion activities and long-term operations of the injection well are evaluated in this IS/MND.

As shown in Figure 4B, Engineering Plans Injection Well SM-10i, the groundwater injection well would be located west of the intersection of Olympic Boulevard and 26th Street. The proposed Project would construct a new 6-inch diameter SM-10i injection line to connect to the existing 6-inch ductile iron pipe from the Santa Monica Urban Runoff Recycling Facility, located immediately south of the median. The well completion activities for Well SM-10i involve disturbance of approximately 7,600 square feet of soils within the Olympic Boulevard median to accommodate the 1-foot deep concrete slab. The maximum depth of excavation would not be greater than 5-feet. The well completion activities involve the construction of a subterranean pump enclosure below each at-grade pad, which would contain the well pumping equipment. This would require export of approximately 285 cubic yards of soil. The completion of the well involves construction of the well and associated electrical equipment, aboveground piping structures and fencing surrounding the aboveground structure, catch basin structure, and sodium bi-sulfate storage vault. Refer to Section 3.1, Aesthetics, for a more detailed view of the proposed aboveground structure.

As shown in Figure 2D, Well SM-11i would be a groundwater injection well located west of the intersection of Exposition Boulevard and Dorchester Avenue. Well SM-11i would require a new pipeline extension as SM-11i would connect to a planned recycled water pipeline extension from Santa Monica City Yards. Well SM-11i would recharge the Olympic Well Field with purified water from the City's SWIP to maintain sustainable yield levels. This would require export of approximately 285 cubic yards of soil. The well completion activities involve the construction of an aboveground pump enclosure below each at-grade pad, which would contain the well pumping equipment. The maximum depth of excavation would not be greater than 5-feet. Additionally, the construction activities involve new aboveground piping installation and fencing surrounding the aboveground structure. The installation of Well SM-11i could result in the removal of up to nine trees in Ishihara Park.

A new recycled water pipeline would be constructed in the roadway along Exposition Boulevard and Stewart Street to connect the new SM-11i to the planned recycled water pipeline at the Santa Monica City Yards, approved as part of the Santa Monica City Yards EIR (SCH No. 2017111053). Approximately 1,500 linear feet of recycled water pipeline would be constructed within the public right-of-way. The depth of disturbance for this Project component would be from approximately 4.5 feet to 6 feet. As a worst-case assumption, assuming no use of excavated soils for backfill, an estimated 1,110 cubic yards of soil may be exported for disposal at a landfill.

Upon completion, the injection well sites would contain within the well mechanical piping located above-ground, as depicted by photographs of typical representative injection well infrastructure in Figures 2C and 2D. Upon completion, all production wells pumping equipment would be enclosed in an above-ground decorative fenced structure, which would include a slab at grade. The visual appearance of the aboveground well equipment is described in more detail in Section 3.1, Aesthetics.

Olympic Well Field Operations

Upon operation of the production wells, approximately 3,200 acre-feet/yr of groundwater would be extracted from the Olympic Well Field. Currently, the Well Field generally produces between 1,000 acre-feet/yr and 1,600 acre-feet/yr, limited by the contaminants present. Regarding long-term operations, the wells would require ongoing chemical dosing (sodium hypochlorite or bleach) and electrical use for pumping/injection operations. These chemicals would be brought by the operators and stored in small quantities at the well site. The injection wells operate under pressure in the recycled water pipeline and may only need to be backwashed periodically (once every 6-12 months) with submersible pumps. Electrical equipment includes the submersible pumps, valves, and instrumentation. A new electrical service is likely required to power the panel. No new employees would be required to maintain the wells, and only negligible vehicle trips would be required for periodic maintenance activities.

2.5.2 Olympic Pipeline

Olympic Pipeline Construction

As previously discussed, the proposed Project would construct the Olympic Pipeline from the Olympic Well Field to the Arcadia WTP in order to separate Olympic Well Field contaminated groundwater from the Charnock Well Field groundwater for separate treatment at the Arcadia WTP. The anticipated alignment of the pipeline is described in Section 2.2.2 above. It should be noted this does not include the lateral pipeline connections that are part of the injection and production wells.

Approximately 6,565 linear feet of 16-inch transmission mainline would be constructed, with portions located both within the cities of Los Angeles and Santa Monica. Trenching within the public right-of-way would require approximately 4.5-feet wide open trenching through the length of the streets, with the possibility of horizontal directional drilling or jack and bore construction, which allow for subterranean pipeline construction, at the intersections to minimize traffic disruptions during construction. The maximum depth for this Project component at some areas would go under an existing utility at about 8 feet to the bottom of trench. Other than those isolated areas the depth varies anywhere from 4.5 feet to 6 feet. It is anticipated that approximately 100 to 200 feet of pipeline could be constructed per day, although the ultimate duration of construction would depend on the site-specific conditions, including location and depth of other utilities within the alignment.

After placement of the pipeline, at least half of the trench would require imported sand bedding surrounding the pipeline and sand-cement slurry may be used in areas of shallow overcrossings for backfill. Otherwise, the excavated soils would be used to the extent feasible as backfill. As a worst-case assumption, assuming no use of excavated soils for backfill, an estimated 4,075 cubic yards of soil may be exported for disposal at a landfill.

Excavation equipment would straddle the trench and deposit spoil material into trucks for storage outside the roadway or temporarily stockpiled within the closed traffic lane. The 16-inch pipe would be staged along the pipeline alignment, typically on the shoulder of the road and outside the trench excavation path. Excavation, trenching, and backfill technical specifications would include requirements to backfill and/or plate open excavations. Daily set-up

and break-down activities would include spot street cleaning, removing barricades, plating/covering the open trench, and removing equipment from the roadway.

During construction, lane closures, detours, and flag-men to assist vehicles and pedestrians in the vicinity of active trenching operations would be utilized, as required through mitigation set forth in Section 3.17, Transportation of this IS/MND. At the completion of trenching operations, the affected roadway would be capped and paved in accordance with City of Santa Monica and City of Los Angeles standards and requirements.

Existing subterranean utilities that are anticipated to be in the vicinity of the Olympic Pipeline alignment include the following:

- ATT Distribution
- LA Metro
- City of Los Angeles Traffic
- Los Angeles Department of Water and Power (LADWP)
- Level 3 Communications
- Verizon / MCI
- Crown Castle
- SoCal Gas
- City of Santa Monica, Water, Sewer, Storm
- Spectrum
- SCE
- Frontier / MPower Communications
- Zayo Fiber
- Metropolitan Water District

Olympic Pipeline Operations

Once construction is completed, there are no required ongoing maintenance requirements, and no new employees would be required.

2.5.3 Olympic AWTF and Arcadia Water Treatment Plant Expansion

Site Demolition

Figure 5, Arcadia Water Treatment Plant Demolition and Staging Plan, depicts the existing buildings and other areas that would be demolished to accommodate the proposed Project, which include the following:

- Concrete driveway to Saltair Avenue, grass area near driveway, and removal of 8 trees
- Grassy area adjacent to Bundy Drive
- Equipment removal from the Decarbonator Building (see Figure 5, ID #2)
- Equipment removal from the Washwater Recovery Tank (see Figure 5, ID #14)
- Maintenance Building see (see Figure 5, ID #5)
- Former Chlorination Building (see Figure 5, ID #21)

Olympic AWTF Construction

Figure 6, Arcadia Water Treatment Plant Conceptual Plan Improvements, depicts the preliminary site plan for the improvements at the facility. The locations and/or configuration of the Project components are subject to change through the design and construction process. As previously discussed, the Olympic Pipeline would deliver water from the Olympic Well Field to the new Olympic AWTF, which would be located at the Arcadia WTP site. The Olympic AWTF would remove 1,4-Dioxane, 1,2,3-TCP, TCE, and PCE contamination from the Olympic Well Field water. The proposed AWTF treatment train consists of the ultraviolet light with hydrogen peroxide advanced oxidation process (UV/H_2O_2 AOP or UV AOP) followed by a two-stage granular activated carbon (GAC) system. The treated water from the UV AOP + GAC would be blended with the Arcadia WTP's existing reverse osmosis (RO) system feed water for softening, or it could be blended with the existing RO concentrate stream for treatment through the proposed concentrate treatment processes described below. With the Olympic AWTF and increased production efficiency (90-92% recovery) at the Arcadia WTP (see discussion below), approximately 2,900 acre-feet/yr of treated water would be produced from the 3,200 acre-feet/yr extracted from the Olympic Well Field. The AWTF would provide high-quality drinking water that meets current regulatory standards, and through consultation with the SWRCB, the City is targeting to meet future anticipated regulatory standards.

The Olympic AWTF would consist of the following:

- Pretreatment Filtration
  - New contact tank for the Olympic Well Field. The contact tank will replace an existing storage facility (see Figure 5, ID # 10)
  - Two existing greensand pressure filters repurposed for pretreatment filtration of the Olympic Well Field groundwater upstream of the UV AOP system (see Figure 6, ID #9)
- UV/H2O2 AOP
  - Two new UV AOP trains, each with a total treatment capacity of 3.6 mgd (see Figure 6, ID #7)
  - New hydrogen peroxide storage and feed facility (see Figure 6, ID #8)
- GAC System
  - Four lead-lag GAC systems (total of 8 GAC vessels) using liquid phase catalytic carbon for hydrogen peroxide quenching and to provide a secondary treatment barrier for other potential VOCs that may be present (see Figure 6, ID #6)

Olympic AWTF Operations

Once construction is completed, there would be an increased demand for electricity to power the new pumps and equipment. No new employees would be required to operate or maintain the Olympic AWTF. The new facilities may require additional truck traffic every 2 to 4 weeks to provide additional chemical deliveries, such as hydrogen peroxide for the AWTF operations. However, long-term operational traffic to the Arcadia WTP would not be substantively altered.

Arcadia WTP Expansion Construction

To support development of alternative water supplies and restoration of the Olympic Well Field, treatment capacity expansion and plant upgrades are required at the Arcadia WTP. Once the new Olympic AWTF and upgrades/expansion of the Arcadia WTP are complete, the process flow schematic would be updated as shown in

Figure 7, Existing and Proposed Process Schematic for the Arcadia WTP. Note that this is only a general schematic and does not contain all components and potential operating scenarios/flexibility for the new RO concentrate treatment technology, tentatively a Closed Circuit Reverse Osmosis (CCRO) system, to enhance production efficiency at the Arcadia WTP.

As previously described, the Arcadia WTP is currently capable of treating up to approximately 11,300 acre-feet/yr (10 mgd) and produce 9,900 acre-feet/yr (8.9 mgd) of treated water, which translates to an approximately 82% recovery or efficiency. The proposed expansion and addition of new technologies to increase production efficiency at the Arcadia WTP would increase its treatment capacity to approximately 14,700 acre-feet/yr (13 mgd) and produce 13,400 acre-feet/yr (12 mgd) of treated water, which translates to an approximately 92% recovery or production efficiency.

The existing three-stage RO system at Arcadia WTP is designed with a recovery range between 70% and 80% for operational flexibility. However, the RO system is currently operating at 83% and the RO membranes were replaced in the first quarter of 2018. To optimize treatment performance and overall recovery, the existing RO system recovery may be reduced to 70% to 75% to leverage the CCRO system's capabilities and achieve an overall membrane system recovery of 90% or greater. Reducing the recovery and/or flux of the existing RO system may reduce clean-in-place (CIP) frequencies and increase membrane life.

In the existing RO system at the Arcadia WTP, a constant stream of concentrate discharge is sent directly to the sewer, with no water recovery from this flow. CCRO would use RO concentrate streams to increase recovery and efficiency of the RO system. CCRO sends its permeate flow back to the feed stream of the CCRO system to blend with incoming RO concentrate feed water. This ensures that the recoverable water in the concentrate flow is retrieved and not sent directly to waste. The increase in concentration of dissolved solids and other contaminants is managed by periodically flushing the concentrated flow to waste and feeding the RO membranes with raw water before clogging can occur. This ensures much higher recovery rates than traditional RO, which can reach approximately 83% versus CCRO alone, which can attain 98% recovery rates (City of Santa Monica 2018b).

The new CCRO system is depicted in Figure 6 as building ID #1 through ID #4. The new CCRO system would be housed in a pre-engineered structure on the south side of the existing RO building and would require pipeline and electrical upgrades throughout the system. The new CCRO system would be capable of: (1) treating RO concentrate from the existing primary RO system, and (2) blending greensand filtrate + RO concentrate from the existing primary RO system. The CCRO technology is estimated to produce 1,200 acre-feet/yr on average from Arcadia WTP's existing concentrate waste stream that is discharged into the sewer. The CCRO system includes:

- Two new CCRO feed equalization tanks (12-ft diameter and 16-ft tall each tank) to provide approximately 15 minutes of storage for the CCRO system.
- Two new CCRO skids and high-pressure pumps, each with a permeate production capacity of 734 gpm at 71% CCRO recovery, which equates to a total primary RO + CCRO system recovery of approximately 92%.
- New sulfuric acid storage and feed facility to support the CCRO system (one new 8-ft diameter and 10-ft tall sulfuric acid storage tank).

Other upgraded/expanded ancillary facilities (e.g., pumps, blowers, cartridge filters, etc.) would be constructed at the Arcadia WTP to expand the overall treatment capacity to accommodate increased groundwater production from Olympic Well Field and additional production from new technologies (e.g., CCRO). The overall intent is to operate all

four existing RO trains in duty mode, rather than the current three duty and one standby configuration, to increase overall online factor of the Arcadia WTP.

The hydraulic treatment capacity expansion enhancement of the Arcadia WTP would consist of the following:

- Replace existing greensand filtration feed pumps (or Contact Tank Pumps) to increase hydraulic pumping capacity. Three new vertical diffusion vane pumps (2 duty and one standby), each with a rated capacity of 4,550 gpm at 60 ft of head and equipped with variable frequency drives (Figure 6, ID #9).
- Reconfigure existing greensand filter piping to where four existing greensand filters would serve the existing primary RO system and the remaining two existing greensand filters would serve the new Olympic AWTF (see Figure 6, ID #9).
- Improve backwash handling capability through either 1) modify existing inclined plate separator piping manifold and drain line or 2) provide a new bypass line around the inclined plate separator to send greensand filter backwash waste directly to the sewer (Figure 5, ID #14).
- Replace existing RO Low Pressure Transfer Pumps to increase hydraulic pumping capacity to serve four duty primary RO trains at the Arcadia WTP. Three new vertical diffusion vane pumps (2 duty and one standby), each with a rated capacity of 4,500 gpm at 100 ft of head and equipped with variable frequency drives (Figure 5, ID #8).
- Add new cartridge filter with a design flow of 1,900 at a loading rate of approximately 3.3 gpm per 10-inch equivalent length (Figure 5, ID #8).
- Piping and hydraulic improvements to incorporate new CCRO skids to increase overall production efficiency (>90%) at the Arcadia WTP (see Figure 6, ID #1).
- Ability to operate all four existing RO skids in duty mode when CCRO is offline. With all four RO skids in operation, each skid is estimated to produce approximately 1,480 gpm at 82% recovery (Figure 6, ID #1).
- Replace the existing decarbonation towers with two new packed column air stripping towers. The new packed column air stripping towers will be designed for VOC removal in addition to removing carbon dioxide to increase pH. Each new packed column air stripping tower will be designed to treat approximately 3,755 gpm and have a blower capacity of 15,340 standard cubic feet per minute. Associated off-gas duct work to the vapor phase GAC would also be replaced (see Figure 6, ID#5).
- Retrofit existing sodium bisulfite chemical storage and feed system for liquid ammonium sulfate service (Figure 5, ID #10).
- Upgrade and/or expand chemical storage and feed facilities to support increased water production at the Arcadia WTP. The chemical storage and feed facilities include sodium hypochlorite, sulfuric acid, sodium hydroxide, antiscalant (or also known as threshold inhibitor), and sodium bisulfite (Figure 5, ID #10).
- Add a new RO storage concentrate and feed pad (brine storage tank; approximately 40,000 gallons) and pump station (3 pumps, 2 duty and 1 standby, with each pump rated for 750 gpm at 100-ft of head) to decouple the existing RO system from the concentrate discharge pipeline (Figure 6, ID #2).

Plant-wide improvements to support the treatment capacity expansion and production efficiency include, but may not be limited to site work, yard piping, and electrical service. The locations and/or configuration of the Project components are subject to change through the design and construction process. Other site improvements include the construction of one new electric vehicle charging station for the operation of the City's vehicle fleet.

Arcadia WTP Operations

Once construction is completed, there would be an increased demand for electricity to power the new pumps and equipment. No new employees would be required to operate or maintain the expansion at the Arcadia WTP. The new facilities may require additional truck traffic every 2 weeks to provide additional chemical deliveries, such as sulfuric acid deliveries for the CCRO operations. However, long-term operational traffic to the Arcadia WTP would not be substantively altered.

2.6 Overall Project Construction Schedule

Construction of the proposed Project is anticipated to be conducted in 3 phases, including the completion of the wells at the Olympic Well Field, the installation of the Olympic Pipeline, and the expansion/improvements at the Arcadia WTP, including the new Olympic AWTF. Although these activities would be scheduled individually, as they require different equipment and construction activities, it is possible that construction phases would overlap. Therefore, the anticipated construction schedule summarized below provides a conservative assumption of overlapping activities between all 3 phases. Construction of the proposed Project is anticipated to occur as follows:

- SM-8, SM-9, SM-10i: November 2020 through February 2021
- SM-11i: July 2023 through September 2023
- Recycled Water Pipeline: June 2023
- Olympic Pipeline: February 2021 through June 2021
- Olympic AWTF and Arcadia WTP Upgrades: January 2022 through December 2022

Note that these dates may vary from the exact dates listed here; however, the analysis assumes a construction start date of November 2020, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years. For more detailed assumptions regarding construction phases, please refer to Section 3.3, Air Quality (see Table 3.3-1).

2.7 Project Approvals and Permits

2.7.1 Lead Agency: City of Santa Monica

The City of Santa Monica, as Lead Agency for the Project, has the responsibility for reviewing, processing, and approving the proposed Project. This IS/MND is intended to analyze the potential environmental impacts of all future discretionary and ministerial actions related to the proposed Project, and this IS/MND is the primary

reference document for the formulation and implementation of the Mitigation Monitoring and Reporting Program for the Project, in accordance with Section 15097 of the State CEQA Guidelines. The City of Santa Monica may approve the IS/MND if it finds, on the basis of the whole Project record, that there is no substantial evidence that the Project would have a significant effect on the environment. Construction of the Arcadia WTP Upgrades is located in the City of Los Angles. However, Cities are exempt from each other's building and zoning ordinances pursuant to California Government Code § 53091, therefore the City of Los Angeles does not have land use permitting authority over this project.

Discretionary actions subject to City's review and approval before the City Council include, but are not limited to:

- Adoption of IS/MND documentation (Santa Monica City Council)
- Authorization to amend the design-build contract to authorize construction of the Project (Santa Monica City Council)
- Other administrative and ministerial approvals would be required by the City for Project implementation. Such permits may include, but are not limited to, demolition and building permits, after-hours construction permit, and traffic control plans.

2.7.2 Responsible Agencies

A public agency, other than the lead agency, that has discretionary approval over a project is known as a "responsible agency," as defined by State CEQA Guidelines (14 CCR 15000 et seq.). The following is a list of other responsible agencies and their discretionary authority over the proposed Project:

- State Water Resources Control Board (SWRCB)
    - Division of Drinking Water: Amendment to 97-005 Permit for Domestic Water Supply

2.7.3 Other Permits and Approvals

Other permits and approvals are required to implement the proposed Project. Other permits and approvals required, and their respective agency administrators, are listed below:

- South Coast Air Quality Management District (SCAQMD)
    - Applicable air quality permits for construction activities; amendment to existing permits to operate new stationary sources of equipment that may emit air contaminants; and/or distribution and reuse of the advanced treatment water
- State Water Resources Control Board (SWRCB)
    - Coverage under National Pollutant Discharge Elimination System (NPDES) Permit No. CAS000002, General Construction Activity Storm Water Permit and Storm Water Pollution Prevention Plan (SWPPP)
- Los Angeles County Department of Public Health
    - Compliance with most recent version of the Los Angeles County Department of Public Health Guidelines for Alternative Water Sources; Indoor and Outdoor Non-Potable Uses
- City of Los Angeles
    - Coordination with City of Los Angeles for nighttime construction

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3 Initial Study Checklist and Neighborhood Impact Statement

1. **Project Title:**

   Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

2. **Lead agency name and address:**

   City of Santa Monica
   1685 Main Street
   Santa Monica, California 90401

3. **Contact person and phone number:**

   Omeed Pour, P.E.
   Omeed.pour@SMGOV.NET
   (310) 458-2201 ext. 2481

4. **Project location:** (See Section 2.2 of this IS/MND for further details on the Project location)

   The Olympic Well Field is located in the City of Santa Monica generally along the alignment of Olympic Boulevard south of Centinela Avenue and north of Cloverfield Boulevard. The locations for the proposed groundwater production wells SM-8 and SM-9, and the proposed groundwater injection well SM-10i, are within the public right-of-way median of Olympic Boulevard. Proposed injection well SM-11i is located within Ishihara Park at 2909 Exposition Boulevard in the City of Santa Monica. The new recycled water pipeline would be constructed in the roadway along Exposition Boulevard and Stewart Street to connect the new SM-11i to the planned recycled water pipeline at the Santa Monica City Yards, located at 2500 Michigan Avenue in the City of Santa Monica.

   The Olympic Pipeline would be entirely subsurface and contained within City-owned property and within publicly-owned right-of-way within the cities of Santa Monica and Los Angeles. The proposed alignment would travel beneath Saltair Avenue (or Bundy Drive) to Arizona Avenue to Berkeley Street, to Colorado Avenue to Berkeley Street, terminating at Nebraska Avenue.

   The Olympic AWTF and the Arcadia WTP Expansion are co-located at the Arcadia WTP. The Arcadia WTP encompasses a 4.8-acre parcel located at 1228 South Bundy Drive in the West Los Angeles Community Plan Area of the City of Los Angeles.

5. **Project sponsor's name and address:**

City of Santa Monica
Department of Public Works
1685 Main Street
Santa Monica, California 90401

6. **General plan designation:**

Olympic Well Field:	N/A within the public right-of-way; Mixed Use Creative
Olympic Pipeline:	N/A within the public right-of-way
Olympic AWTF / Arcadia WTP Expansion:	Public Facilities

7. **Zoning:**

Olympic Well Field:	N/A within the public right-of-way; Mixed-Use Creative
Olympic Pipeline:	N/A within the public right-of-way
Olympic AWTF / Arcadia WTP Expansion:	[Q]PF-1XL (Qualified Public Facilities in Height District 1, Extra Limited)

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

See Section 2.5, Project Components

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

See Section 2.4, Existing Conditions and Setting

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

See Section 2.7, Project Approvals and Permits.

11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

Yes, see Section 3.18, Tribal Cultural Resources.

Environmental Factors Potentially Affected

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

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

Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation:

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

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

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

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

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



Signature

July 1, 2020

Date

Evaluation of Environmental Impacts

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

3.1 Aesthetics

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS – Except as provided in Public Resources Code Section 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☒	☐
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐
e) Produce extensive shadows affecting adjacent uses or property?	☐	☐	☒	☐

Existing Setting

In the City of Santa Monica, major scenic vistas are those associated with the beach, the bay, the Pier, and the bluffs. Policies in the City's Local Coastal Program Land Use Plan (LUP) are directed towards preserving and enhancing the public views associated with these resources, as well as improving the visual quality of the inland urbanized area of the Coastal Zone (City of Santa Monica 2018b). Examples of local scenic views include those of the Pacific Ocean, the Santa Monica Mountains, and urban scenic resources along major roadways. In general, public views of the Pacific Ocean are available from the coastal areas (e.g., along Pacific Coast Highway and Ocean Avenue). At some locations along north-south roadways, channeled public views of the Santa Monica Mountains are available. Public views of urban scenic resources (such as the Santa Monica Pier) are available from locations near the particular resource. In addition, a number of scenic resources including scenic highways, trees, and historic buildings, exist in the City. The Pacific Ocean, Santa Monica Bay, and Santa Monica Pier are located over 1.5 miles from the Project site and are not visible from the Project area. Additionally, public views, such as those from the Santa Monica Mountain, are not available from the Project area. There are existing trees within and in the vicinity of the Project area. The City's Land Use and Circulation Element identifies the existing coral trees within the Olympic Boulevard median as valued scenic resources.

Olympic Well Field Restoration

The proposed locations for SM-8, SM-9, and SM-10i are within the existing Olympic Boulevard median in the public right-of-way in the Bergamot Area Plan within the City of Santa Monica. As described in Section 2.4.2, the uses surrounding the proposed wells includes a mix of office, commercial, E Line Light Rail Transit (LRT), and the 26th Street Arts Center. Additionally, the proposed location for SM-11i is within the eastern portion of Ishihara Park. There are currently nine trees within the proposed location for SM-11i. The uses surrounding this site are industrial and residential. The proposed recycled water pipeline would be located within the existing roadways (Exposition Boulevard and Stewart Street). The locations for the proposed wells are relatively flat and not surrounded by any unique topographical features. There are currently no State-designated scenic highways in the City of Santa Monica (City of Santa Monica 2010a). The visual character of the Bergamot Area Plan is typical of a commercial and transit area with the single- and multi-story office buildings, commercial buildings, and a rail line that runs parallel to Olympic Boulevard. The nearest open space areas surrounding the Olympic Well Field Restoration well locations are the existing Olympic median with its coral trees, Ishihara Park, and Gandara Park, approximately 900 feet south from SM-8 and separated by the Metro Light Rail E Line.

The existing light sources surrounding the area are typical of an urban area and are associated a mix of office, commercial, and public uses, as well as surface parking lots. Interior lighting emanating from existing structures and buildings are common sources of nighttime lighting in the areas. Other sources of light in the area include light from traffic signals, lighting installed at or near building entrances, surface parking lot lights, and lighting from parking garages. Shade-sensitive land uses can be characterized as including residential, recreational, or institutional uses that contain routinely useable outdoor spaces (e.g., schools, parks, convalescent homes); commercial uses with pedestrian-oriented outdoor spaces or restaurants with outdoor eating areas; landscaping nurseries; solar arrays, etc. Such uses are considered sensitive because sunlight is important to physical comfort or commerce. Ishihara Park would be considered a sensitive shadow use.

Olympic Pipeline

City of Santa Monica

The proposed Olympic Pipeline would be located within the existing roadways (Arizona Ave, Berkeley Street, and Colorado Avenue) through the eastern portion of the City (crossing through residential neighborhoods and the Bergamot Plan area). A mix of commercial, art, mixed-use, and residential uses, surrounds the proposed Olympic Pipeline alignment, and the surrounding area is relatively flat and lacks topographical features. There are currently no State-designated scenic highways in the City of Santa Monica (City of Santa Monica 2010a). The character of Arizona Avenue and Berkeley Avenue consists primarily of large numbers of multi-story medium density residential buildings, except where there are major boulevards such as Santa Monica Boulevard and Wilshire Boulevard, which contains a mix of commercial and retail uses along the roadways. There are no nearby parks or other open spaces located along this portion of the Project site. Existing light sources in the area are associated with the interior lighting from residential and commercial buildings, as well as street lighting for safety. The majority of uses located on either side of the proposed Olympic Pipeline are primarily residential, and thus, are considered shadow sensitive uses.

City of Los Angeles

In the City of Los Angeles, the West Los Angeles Community Plan does not define scenic vistas; however, it recognizes the need to preserve open space (City of Los Angeles 1999). The proposed Olympic Pipeline within the City of Los Angeles's jurisdiction is similarly is located within the existing roadways (Texas Avenue and Saltair Avenue) through a primarily residential area. The uses surrounding the Olympic Pipeline consists of single- and multi-family residential uses and other local streets. The surrounding area is relatively flat and lacks topographical features. There are no nearby parks or other open spaces located along this portion of the Project site. The roadways surrounding the proposed Olympic Pipeline in the City of Los Angeles include Wilshire Boulevard, Bundy Drive, Texas Avenue, and Saltair Avenue. According to the West Los Angeles Community Plan, Wilshire Boulevard is designated as a Scenic Highways (City of Los Angeles 1999). The character of this portion of West Los Angeles is dominated by apartments varying in style. Existing light sources in the area are associated with the interior lighting from residential and commercial buildings, as well as street lighting for safety. The majority of uses located on either side of the proposed Olympic Pipeline are primarily residential, and thus, are considered shadow sensitive uses.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is surrounded by a mix of commercial and residential land uses within the West Los Angeles Community Plan in the City of Los Angeles. The area is within a highly urbanized portion of the City of Los Angeles and does not contain open spaces, topographical features, nor does it offer scenic views. According to the West Los Angeles Community Plan, Wilshire Boulevard and Santa Monica Boulevard are designated as a Scenic Highways (City of Los Angeles 1999). The character of the area shifts moving towards Wilshire Boulevard, which contains a wide mix of uses, including high-rise office buildings, retail shops, restaurants, and other commercial uses. The uses to the east, west, and south of the Arcadia WTP are residential uses. Interior lighting emanating from existing structures and buildings are common sources of nighttime lighting in the Project area. Pole-mounted overhead streetlights are installed along Wilshire Boulevard, Bundy Drive, and Saltair Avenue, and other local roads surrounding the Project site and contribute to the local nighttime environment. There are shadow sensitive uses surrounding all sides of the existing Arcadia WTP.

Impact Analysis

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

Short-Term Construction Impacts for All Project Components

No Impact. All project components are within urbanized areas of the cities of Santa Monica and Los Angeles. Construction activities associated with the all Project components would be temporarily visible by motorists, pedestrians, and occupied land uses adjacent to the Project sites. Visual impacts from short-term construction activities may include mobile and stationary equipment, soil stockpiles, worker vehicles, and temporary signage and fencing, which are common visual features in urban areas. No equipment would be tall enough to impede views of or otherwise substantially effect a distant scenic vista. Therefore, the temporary visual inconvenience of construction activities would not have a substantial adverse effect on a scenic vista.

Olympic Well Field Restoration

No Impact. Wells SM-10i, SM-8, and SM-9 would be located within the existing Olympic Boulevard median, and well SM-11i would be located in the existing Ishihara Park. The proposed recycled water pipeline would be located within the existing roadways (Exposition Boulevard and Stewart Street), and would not have any above-ground features that would be publicly visible or could otherwise adversely affect a scenic vista. The proposed wells are more than 1.5 miles from scenic vistas in the City, and would not impede views of, or be large enough to substantially effect scenic vistas, such as public views of the Santa Monica Mountains. Therefore, the proposed Well Field Restoration would not have a substantial adverse effect on a scenic vista.

Olympic Pipeline

No Impact. There are no designated scenic vistas in proximity to the Olympic Pipeline alignment within either the City of Santa Monica or Los Angeles. The Olympic Pipeline would be placed below the surface within an existing road and would not have any above-ground features that would be publicly visible or could otherwise adversely affect a scenic vista.

Olympic AWTF and Arcadia WTP Expansion

No Impact. The Project site and surrounding area are not within the viewshed of a designated scenic vista. There are no scenic resources, either natural or created, within the viewshed of the Project site. The proposed improvements at the Arcadia WTP are not tall enough to hinder views of, or otherwise obstruct views of distant scenic vistas.

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

Olympic Well Field Restoration

Less-Than-Significant Impact. There are currently no State-designated scenic highways in the City of Santa Monica (City of Santa Monica 2010a). However, the Bergamot Area Plan (BAP) identifies the median along the Olympic Boulevard corridor with its coral trees as an important scenic resource and one of the limited open spaces in the surrounding area. Additionally, one of the policies in the BAP is to "protect and enhance the existing greenway character of Olympic Boulevard from Centinela Avenue to 26th Street by: preserving the existing median" (City of Santa Monica 2013). The proposed Project would result in the completion of two production wells and one injection well along the Olympic Boulevard median. The wells would contain piping aboveground as depicted in Figure 2C, and would be enclosed in an above-ground artistic fencing structure. Figure 8, Representative Production Well Site, includes a rendering of typical aboveground well structure that would be constructed at the proposed well sites. Completion of these wells under the proposed Project would not result in the removal of the coral trees within the median. Further, the Project would include proposed art installations around the wells that would be consistent with the BAP's plan for "major public art installations in visible locations throughout the Plan area, such as the Olympic Boulevard median" (City of Santa Monica 2013). The well enclosures would be designed by City commissioned artist to comply with BAP. Therefore, the proposed Project would not damage scenic resources, including the Olympic Boulevard median along the Olympic Boulevard corridor. Additionally, a second injection well would be completed within Ishihara Park

along Exposition Boulevard between Stewart Street and 30th Street, which is not considered a scenic corridor. The installation of this second injection well would result in the removal of trees; however, this would not be within a scenic corridor and the removal of trees would be within the City's authority per Section 7.10.001 of the Santa Monica Municipal Code (SMMC). Impacts would be less than significant.

Olympic Pipeline

City of Santa Monica

No Impact. There are currently no State-designated scenic highways in the City of Santa Monica (City of Santa Monica 2010a). Since there are no designated scenic highways within the Project vicinity, the proposed Project would not damage scenic resources within a state scenic highway.

City of Los Angeles

Less-Than-Significant Impact. The Olympic Pipeline crosses Santa Monica Boulevard, which is designated as a Scenic Highway by the West Los Angeles Community Plan (City of Los Angeles 2011). At the Santa Monica Boulevard intersection proposed for the Olympic Pipeline, there is a multi-family residential complex to the northwest, a restaurant and retail uses to the northeast, a liquor store and restaurant to the southeast, and a car dealership to the southwest. Construction equipment would temporarily be visible within Santa Monica Boulevard during trenching operations. All construction equipment would be limited to the public right-of-way and would not impact private property, and no impacts to trees would occur, as all construction would be within paved roadways. Upon completion of trenching and pipeline installation, the roadways would be repaired in a manner consistent to the pre-Project conditions. Therefore, the Project would not result in substantial damage to scenic resources such as scenic trees, rock outcroppings, and historic buildings within a scenic highway. Impacts would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. According to the West Los Angeles Community Plan, Wilshire Boulevard is designated as a Scenic Highways (City of Los Angeles 1999). An existing alley, restaurant, retail shops, an office building, a six-story residential building, and a City of Santa Monica-owned lot on the southeast corner of Wilshire Boulevard and Bundy Drive separate Wilshire Boulevard and the existing Arcadia WTP. The proposed Olympic AWTF and Arcadia WTP Expansion would result in some visual changes on-site; however, the new structures would be consistent with the use, character, and type of construction that is currently on the Arcadia WTP site. Although Wilshire Boulevard is designated as a Scenic Highway, the existing Arcadia WTP is not considered a scenic resource that would be damaged within the viewed of Wilshire Boulevard. Further, the existing land uses between the Project site and Wilshire Boulevard screen the existing Arcadia WTP from public view. The Project would temporarily use a lot at the southeast corner of Wilshire Avenue and Bundy Drive for construction staging; however, construction at the Arcadia WTP would be temporary (approximately one year) and would not result in substantial damage to a scenic resource within a scenic highway. Therefore, the proposed Project would not damage scenic resources within the view of Wilshire Boulevard. Additionally, there are no trees, rock outcroppings, and historic buildings within the viewshed of Olympic Boulevard that would be damaged as a result of the proposed Project. Therefore, impacts would be less than significant.

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

Short-Term Construction Impacts for All Project Components

No Impact. All project components are within urbanized areas of Santa Monica and Los Angeles. Construction activities associated with the all Project components would be temporarily visible by motorists, pedestrians, and occupied land uses adjacent to the Project sites. Visual impacts from short-term construction activities may include mobile and stationary equipment, soil stockpiles, worker vehicles, and temporary signage and fencing, which are common visual features in urban areas. Upon completion of any construction activities within public right-of-way, including public streets, the surfaces would be restored to pre-Project conditions. Further, the temporary visual inconvenience of construction activities would not conflict with applicable zoning and other regulations governing scenic quality. Therefore, no impacts would occur.

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed locations of SM-8, SM-9, and SM-10i are within an existing median in the public right-of-way within an urbanized portion of the City. The proposed location for SM-11i is within the existing Ishihara Park. Once completed, an aboveground slab at-grade well equipment arrangement with an artistic fencing structure would be constructed around each well site. Figure 8, Representative Production Well Site, includes a rendering of typical aboveground well structure that would be constructed at the proposed well sites. Completion of these wells under the proposed Project would not result in the removal of the coral trees within the median. The artistic fencing structures would be consistent with the BAP's plan for "major public art installations in visible locations throughout the Plan area, such as the Olympic Boulevard median" (City of Santa Monica 2013). The well enclosures would be designed by City commissioned artist to comply with BAP. As such, the completion of these wells would not conflict with applicable zoning and other regulations governing scenic quality. Therefore, impacts would be less than significant.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline would be located entirely subsurface within existing roadways and would not have any above-ground features that would be publicly visible. The long-term operation of the pipeline would not conflict with applicable zoning or any regulations governing scenic quality.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The Arcadia WTP encompasses a 209,957 square foot (4.8-acre) parcel located at 1228 South Bundy Drive in the West Los Angeles Community Plan Area of the City of Los Angeles. The Arcadia WTP is immediately surrounded by residential uses to the northeast, southeast, and southwest, and commercial land uses to the northwest adjacent to Wilshire Boulevard. The Arcadia WTP is zoned Public Facilities in a 1XL height district (basic height restriction to 30 feet) ([Q]PF-1XL) in the City of Los Angeles. Section 12.04.09, "PF" Public Facilities Zone of Los Angeles Municipal Code provides regulations

applicable to the PF Zone. The provisions of LAMC Section 12.04.09 would typically govern uses within the PF Zone, unless otherwise noted in LAMC Section 12.22, Exceptions. Per Section 12.22(A)(2), Public Utilities and Public Services, the provisions of the LAMC "shall not be construed as to limit or interfere with the construction installation, operation and maintenance for public utility purposes of water and gas pipes, mains and conduits, electric light and electric power transmission and distribution lines, telephone and telegraph lines, oil pipe lines, sewers and sewer mains, and incidental appurtenances."

The proposed Project involves construction, installation, and operation for public utility purposes, and thus, the provisions of the LAMC would not limit or interfere with the proposed Project. Further, per §53091(d) of the California Government Code, building ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water, wastewater, or electrical energy by a local agency. Therefore, the building ordinances of the City of Los Angeles would not apply to the construction of facilities for the treatment of water as proposed by the City of Santa Monica. For these reasons, the proposed Project would not conflict with applicable zoning governing scenic quality, and thus, impacts would be less than significant.

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

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. The proposed Project would be constructed during daytime hours, as permitted by the construction hours set forth in the SMMC (Monday through Friday, 8:00 a.m. to 6:00 p.m., and Saturday, 9:00 a.m. to 5:00 p.m.). Any use of portable lighting elements during construction would be located within the limits of the applicable Project site and would be of short duration (for example, during the last hour of the workday in late fall and winter months). In these instances, portable lighting would be used to illuminate the development area and concentrated onto the area of active construction. Widespread use of portable lighting across the Project site during individual phases would not occur. In the event nighttime construction is required, the proposed Project would require authorization, as further described in Section 3.13, Noise. Nighttime construction, if proper authorization is received, could involve the transport of materials to and from the Arcadia WTP. Nighttime lighting associated with the transport of materials would be similar to existing nighttime lighting produced by vehicles. Due to the limited and short-term duration of construction lighting, use of lighting on the Project site during construction activities would not adversely affect day or nighttime views in the area, and impacts would be less than significant.

Olympic Well Field Restoration

Less-Than-Significant Impact. Once operational, the Well Field sites would include some lighting for personnel to access the wells at night in case of emergency. The SMMC requires that all lighting fixtures be shielded "so as not to produce obtrusive glare" onto the public right-of-way or adjacent properties and that light be primarily retained on-site ("lighting may not illuminate other properties in excess of a measurement of 0.5-foot candles of light") (Municipal Code, Section 9.21.080(C)). Compliance with the SMMC would ensure the proposed Project would not generate substantial light or glare that would adversely affect day or nighttime views in the area. Impacts would be less than significant.

Olympic Pipeline

No Impact. Once operational, the Olympic Pipeline would be entirely subsurface and would not include any lighting or involve any aboveground structure that would generate light or glare.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The proposed Project involves the demolition of existing buildings, equipment removal, and new construction as part of the expansion of the existing Arcadia WTP to accommodate the new water supply from the Olympic Well Field Restoration. The Project involves the demolition of Maintenance Building, chlorination building, and equipment removal at the decarbonator and washwater recovery system and tank. Other upgraded/expanded ancillary facilities (e.g., pumps, blowers, cartridge filters, etc.) would be constructed at the Arcadia WTP. The Project would include the installation of new interior and exterior lighting fixtures in compliance with all applicable regulations of the SMMC related to lighting. For example, the SMMC requires that all lighting fixtures be shielded "so as not to produce obtrusive glare" onto the public right-of-way or adjacent properties and that light be primarily retained on-site ("lighting may not illuminate other properties in excess of a measurement of 0.5-foot candles of light") (Municipal Code, Section 9.21.080(C)).

The proposed Project would not have the potential to create glare. Consistent with SMMC requirements, low-e vision clear glass would be used for any new windows to minimize the potential for glare received off-site. The proposed Project would also be required to comply with SMMC Section 9.21.120 which prohibits the use of highly reflective materials. Section 9.21.120 (D)(3) states that no more than 25% of the surface area of any façade on any new building or addition to an existing building shall contain black or mirrored glass or other mirror-like material that is highly reflective. Adherence to SMMC standards and regulations regarding lighting and reflective materials would ensure that the Project would not result in adverse effects to daytime and nighttime views due to new lighting and glare and impacts would be less than significant.

3.1 e) Would the project produce extensive shadows affecting adjacent uses or property?

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. Project equipment used during construction of all Project components would be typical in scale and type as most urban construction projects, requiring equipment such as excavators, cement mortar mixers, bore/drill rigs, rollers, concrete/industrial saws, rubber-tired dozers, tractors/loaders/and backhoes, aerial lifts, cranes, and pavers (refer to Table 3.3-1). Although cranes would be used during the construction activities at the Arcadia WTP, the use would be short-term (approximately 6 months) and would not produce extensive shadows over adjacent uses. No other large equipment would be used during construction of the proposed Project. Therefore, impacts would be less than significant.

Olympic Well Field Restoration

No Impact. The proposed Well Field sites would all be developed with above ground artistic fencing that would visually shield the piping facilities of each well site. The artistic fencing would be approximately 6 feet high, as shown in Figure 8, and would not be tall enough to produce extensive shadows affecting shadow-sensitive uses or properties near the well sites.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline would be placed subsurface within existing roadways and would not involve any aboveground structure that would produce extensive shadows.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. Under the existing conditions, the two decarbonators sit on top of a 14-foot-tall, ground concrete tank, for a total of approximately 39 feet in height. The decarbonators are situated in the interior of the Project site at the southwest corner of the existing RO building, which is approximately 29 feet in height. As proposed, the decarbonators would be demolished and replaced with new, larger capacity air stripping towers. The new air stripping towers would extend to approximately 37 feet. Additionally, the proposed CCRO building would extend to approximately 29 feet. Because the RO building, views of the proposed decarbonators would be largely screened as viewed from Saltair Avenue and would be screened by trees from the adjoining alleyway to the north. In addition, the decarbonators would be set back about 90 feet from Saltair Avenue and about 60 feet from the alley. Given its location on the site and set back distances, the new air stripping towers would not produce extensive shadows affecting adjacent uses or properties.

Nonetheless, a shade/shadow analysis was prepared for the proposed Project to consider the potential for shadow-sensitive uses to be placed in shadow by the Project. The existing residential uses to the north and east of the Arcadia WTP are considered shadow-sensitive uses. To approximate shade and shadow conditions in the surrounding area created by implementation of the proposed Project, shadows cast by the proposed Project were simulated for the spring equinox (March 20), summer solstice (June 21), winter solstice (December 21), and fall equinox (September 23) Shadow projections from the proposed Project during spring, summer, winter, and fall are shown in Figures 9A through 12C.

Spring Equinox

Shadow projections during spring equinox from the proposed Project are shown in Figures 9A, 9B, and 9C, Existing and Proposed Shadows – Spring Equinox at 9:00 a.m., 12:00 p.m., and 3:00 p.m., respectively. The depictions of project-generated shadows represent the median shade/shadow that would result from implementation of the proposed Project. As shown on the figures, a portion of the sidewalk along S Saltair Avenue adjacent to the Project site may be shaded for a few hours as a result of the proposed CCRO building. However, the adjacent residential uses to the north and east would not be shaded during any time. The proposed air strippers would not cast shadows outside of the Project site. As such, the proposed Project would not produce extensive shadows affecting adjacent uses or property during the spring, and no impacts would occur.

Summer Solstice

Shadow lengths and projections on the summer solstice are depicted in Figures 10A, 10B, and 10C, Existing and Proposed Shadows – Summer Solstice at 9:00 a.m., 1:00 p.m., and 5:00 p.m., respectively. As shown, shadows cast by the proposed Project during the summer would be shorter than those in the winter and would generally be cast onto the Project site only. Therefore, the Project would not produce extensive shadows affecting adjacent uses or property during the summer and no impact would occur.

Fall Equinox

Shadow projections during fall equinox from the proposed Project are shown in Figures 11A, 11B, and 11C, Existing and Proposed Shadows – Fall Equinox at 9:00 a.m., 1:00 p.m., and 5:00 p.m., respectively. As shown on the figures, the sidewalk along Saltair Avenue adjacent to the Project site and a portion of the roadway may be shaded for a few hours as a result of the proposed CCRO building. However, the adjacent residential uses to the north and east would not be shaded during any time. The proposed air strippers would not cast shadows outside of the Project site. As such, the proposed Project would not produce extensive shadows affecting adjacent uses or property during the spring, and no impacts would occur.

Winter Solstice

Due to the low angle of the sun, shadows cast on December 21st would be the longest in length, and therefore, represent the worst-case scenario. As shown in Figures 12A, 12B, and 12C, Existing and Proposed Shadows – Winter Solstice at 9:00 a.m., 12:00 p.m., and 3:00 p.m., respectively, shadows generated by the proposed air strippers and CCRO building at 9:00 a.m. would be cast to the north onto the Project site only. As the morning progresses, shadows cast to the north would reduce in length and would be reoriented towards the northeast. For example, by 12:00 p.m. the shadows cast by the proposed Project would no longer would be cast towards Saltair Avenue onto the sidewalk adjacent to the Project site (Figure 12B). At this time, the proposed Project would not shade any other structure outside of the Project site. At 3:00 p.m., shadows cast by the proposed Project would continue to move and elongate to the east. As shown in Figure 12C, project-generated shadows would extend across Saltair Avenue to the sidewalk near the existing two-and three-story apartment buildings. However, the shadow would not be cast onto the apartment buildings at 3:00 p.m. (see Figure 12C). After 3:00 p.m., Project-generated shadows may continue to elongate as the sun sets but are not anticipated to be extensive such that use of structures or living spaces would be substantially affected. Further, Project shadows would function in this manner for a limited duration (i.e., during the winter season). As such, the proposed Project would not produce extensive shadows affecting adjacent uses or property during the winter and impacts would be less than significant.

3.2 Agriculture and Forestry Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

Existing Setting

Olympic Well Field Restoration

The locations for the wells, generally located between 26th Avenue and Centinela Avenue within the Olympic Boulevard median and at Ishihara Park, is within the urbanized Bergamot Area Plan. The uses surrounding this site includes a mix of office, commercial, Metro E Line, and the 26th Street Arts Center. According to the California Department of Conservation's California Important Farmland Finder, most of the County—including

the City of Santa Monica—is not mapped under the Farmland Mapping and Monitoring Program, and, thus, does not contain Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (collectively Important Farmland) (DOC 2016a). According to the California Department of Conservation's Williamson Act Parcel map for Los Angeles County, the proposed well locations are not located on or adjacent to any lands under a Williamson Act contract. The Los Angeles County Williamson Act 2015/2016 Map designates the proposed well locations and surrounding land as non-Williamson Act Land (DOC 2016b). In addition, no forest land or timberland zoning is present in the surrounding area.

Olympic Pipeline

The pipeline alignment and associated trenching would be entirely contained within publicly-owned right-of-way within the cities of Santa Monica and Los Angeles. There is no Important Farmland or Williamson Act land located along the proposed Olympic Pipeline alignment (DOC 2016a; DOC 2016b). The Project site and surrounding area are zoned Conservation: Creative Sector, Low-Density Residential, and Mixed-Use Boulevard Low in the City of Santa Monica, and Multi-Family Medium and Public Facility in the City of Los Angeles (City of Santa Monica 2019c; City of Los Angeles 2013). In addition, no forest land or timberland zoning is present in the surrounding area.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is located within the West Los Angeles Community Plan in the City of Los Angeles. The areas surrounding the Arcadia WTP are designated as Multi-Family Medium and Community Commercial in the West Los Angeles Community Plan. There is no Important Farmland or Williamson Act land located within the Arcadia WTP (DOC 2016a; DOC 2016b). The existing Arcadia WTP is zoned [Q]PF-1XL (Qualified Public Facilities in Height District 1, Extra Limited), and thus, is not zoned for agricultural uses. In addition, the areas surrounding the Arcadia WTP are zoned R3 (Multiple Dwelling Zone) and C2 (Commercial Zone). In addition, no forest land or timberland zoning is present in the surrounding area.

Impact Analysis

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

Impacts for All Project Components

No Impact. As described above, the none of the Project sites contain Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Additionally, none of the Project components would involve the conversion of land uses or would otherwise convert farmland to non-agricultural use.

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

Impacts for All Project Components

No Impact. As described above, the none of the Project sites contain Williamson Act land, and none of the Project sites or their surrounding land uses are zoned for agricultural uses or require a zone change or would otherwise conflict with an agricultural zone.

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

Impacts for All Project Components

No Impact. As described above, none of the Project sites or their surrounding land uses are zoned for forest land or timberland or require a zone change or would otherwise conflict with forest lands or timberlands.

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

Impacts for All Project Components

No Impact. As described above, none of the Project sites or their surrounding land uses contain forest land or would otherwise conflict with forest lands.

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

Impacts for All Project Components

No Impact. As described above, the proposed Project components are not located on or adjacent to any properties identified as Important Farmland or forestland, and Project implementation would not involve changes to the existing environment that would result in the indirect conversion of Important Farmland or forestland.

3.3 Air Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☒	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Existing Setting

All Project Components

Regional Setting

The Project components are located within the South Coast Air Basin (SCAB), which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County, and is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD). The SCAQMD administers the Air Quality Management Plan (AQMP) for the SCAB, which is a comprehensive document outlining an air pollution control program for attaining all California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS) that are established for criteria air pollutants. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated herein include VOCs and oxides of nitrogen (NO_x), which are important because they are precursors to O_3, as well as CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$. The most recent adopted AQMP is the 2016 AQMP (SCAQMD 2017a), which was adopted by the SCAQMD Governing Board in March 2017. The 2016 AQMP represents a new approach to addressing air quality issues, focusing on available, proven, and cost-effective alternatives to traditional strategies while seeking to achieve multiple goals in partnership with other entities promoting reductions in GHGs and toxic risk, as well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017a).

Regarding NAAQS and CAAQS attainment status,[2] the SCAB is designated as a nonattainment area for national and California O_3 and $PM_{2.5}$ standards. The SCAB is designated as a nonattainment area for California PM_{10} standards; however, it is designated as an attainment area for national PM_{10} standards. The SCAB nonattainment status of O_3, PM_{10}, and $PM_{2.5}$ standards is the result of cumulative emissions from various sources of air pollutants and their

[2] An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. The NAAQS and CAAQS are set by the Environmental Protection Agency and CARB, respectively, for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare. Attainment = meets the standards; attainment/maintenance = achieve the standards after a nonattainment designation; nonattainment = does not meet the standards.

precursors within the SCAB, including motor vehicles, off-road equipment, and commercial and industrial facilities. The SCAB is designated as an attainment area for national and California NO_2, CO, and SO_2 standards. Although the SCAB has been designated as partial nonattainment (Los Angeles County) for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard (CARB 2019a; EPA 2019a).[3]

The discussion in 3.3(c) evaluates the Project's potential to expose sensitive receptors to substantial pollutant concentrations and includes a localized significance threshold (LST) analysis, as recommended by the SCAQMD, to evaluate the potential of localized air quality impacts to sensitive receptors in the immediate vicinity of the Project. The Project components are located in Source Receptor Area 2 (Northwest Coastal Los Angeles County). Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to the SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). Air quality sensitive receptors near the Project components are noted below.

Olympic Well Field Restoration

Well SM-10i, Well SM-8, and Well SM-9 are within the Olympic Boulevard median surrounded by commercial uses, which are not considered a sensitive land use. The closest sensitive receptors to Well SM-10i are located approximately 1,150 feet north of the well site near Colorado Boulevard and 26th Street. For Well SM-8, the closest receptors are residences located approximately 705 feet southeast of the site near Exposition Boulevard. Residences are the closest sensitive receptors to Well SM-9, which are located 740 feet south of the site near Exposition Boulevard; residences are also located approximately 790 feet north of the site near Nebraska Street and Franklin Street. For Well SM-11i located at Ishihara Park, residences are the located approximately 115 feet south of the site across Exposition Boulevard and represent the closest receptors. For the proposed recycled water pipeline, residences located south of Exposition Boulevard are approximately 15 feet from the pipeline (located within the center of Exposition Boulevard) and represent the closest receptors; in addition, Gandara Park located to the southwest of the proposed water recycled pipeline is considered a sensitive land use.

Olympic Pipeline

The nearest sensitive-receptor land uses to Olympic pipeline are residences located adjacent to the street where the pipeline will be installed; therefore, receptors could be within 15 feet to the construction activity.

Olympic AWTF and Arcadia WTP Expansion

As shown in Figure 13, Air Quality Sensitive Receptors – Olympic AWTF and Arcadia WTP, the nearest air quality sensitive-receptor land uses to the Olympic AWTF and Arcadia WTP site are residences that are located within 15 feet to 65 feet around the site: to the south (across Texas Avenue), to the east (across Saltair Avenue), to the west (across Bundy Drive), and to the north (across the adjacent alley). Existing odor control systems do not exist at the Arcadia WTP; however, the chemical building at the existing Arcadia WTP was made of expanded metals with 75% air flow through the openings as required by the City of Los Angeles.

[3] Re-designation of the lead NAAQS designation to attainment for the Los Angeles County portion of the SCAB is expected based on current monitoring data. The phase out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the Project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

Impact Analysis

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

Impacts for All Project Components

Less-Than-Significant Impact. The purpose of a consistency finding is to determine if a project is inconsistent with the assumptions and objectives of the regional air quality plans, and, thus, if it would interfere with the region's ability to comply with federal and state air quality standards. The SCAQMD has established criteria for determining consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and 12.3, in the SCAQMD CEQA Air Quality Handbook. The criteria are as follows (SCAQMD 1993):

- Whether the project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of the ambient air quality standards or interim emission reductions in the AQMP.
- Whether the project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

To address the first criterion regarding the Project's potential to result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of the ambient air quality standards or interim emission reductions in the AQMP, Project-generated criteria air pollutant emissions were estimated and analyzed for significance and are addressed under Section 3.3(b). Detailed results of this analysis are included in Appendix A, CalEEMod Data Assumptions and Results. As presented in Section 3.3(b), construction conducted under the Project would not generate criteria air pollutant emissions that would exceed the SCAQMD thresholds, and the Project is not anticipated to generate substantial operational criteria air pollutant emissions.

The second criterion regarding the Project's potential to exceed the assumptions in the AQMP or increments based on the year of Project buildout and phase is primarily assessed by determining consistency between the Project's land use designations and potential to generate population growth. In general, Projects are considered consistent with, and would not conflict with or obstruct implementation of, the AQMP if the growth in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook). The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by the Southern California Association of Governments (SCAG) for its Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) (SCAG 2016), which is based on general plans for cities and counties in the SCAB, for the development of the AQMP emissions inventory (SCAQMD 2017a).[4] The SCAG 2016 RTP/SCS, and associated Regional Growth Forecast, are generally consistent with the local plans; therefore, the 2016 AQMP is generally consistent with local government plans.

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

As discussed in Section 2.2, the Arcadia WTP site is located in the City of Los Angeles and zoned [Q]PF-1XL (Qualified Public Facilities in Height District 1, Extra Limited), with a General Plan land use designation of "Public Facilities". The Olympic Well Field well locations SM-10i, SM-8, and SM-9, the proposed recycled water pipeline, and the proposed Olympic Pipeline are located within the public right-of-way with no specific zoning or land use designation. SM-11i would be located in Ishihara Park, which is zoned Mixed-Use Creative. The Project does not propose a change in zoning designation, and, no housing is proposed and no additional employees would be required as part of the proposed Project. Accordingly, the Project is consistent with the SCAG RTP/SCS forecasts used in the SCAQMD AQMP development. Therefore, the Project does not propose activities that would induce additional population in the Project area. Accordingly, the Project is consistent with the SCAG RTP/SCS forecasts used in the SCAQMD AQMP development.

In summary, based on the considerations presented for the two criteria, impacts relating to the Project's potential to conflict with or obstruct implementation of the applicable AQMP would be less than significant.

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

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the SCAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used in the determination of whether a project's individual emissions would have a cumulatively considerable contribution on air quality. If a project's emissions would exceed the SCAQMD significance thresholds, it would be considered to have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant (SCAQMD 2003a). This impact evaluation focuses on regional mass daily criteria air pollutant emissions; therefore, this assessment evaluates the Project actions on the whole similar to Threshold 3.3(a).

A quantitative analysis was conducted to determine whether proposed construction activities would result in a cumulatively considerable net increase in emissions of criteria air pollutants for which the SCAB is designated as nonattainment under the NAAQS or CAAQS.

Appendix G of the CEQA Guidelines indicates that, where available, the significance criteria established by the applicable air district may be relied upon to determine whether a project would have a significant impact on air quality. The SCAQMD has established Air Quality Significance Thresholds, as revised in April 2019, which set forth quantitative emissions significance thresholds below which a project would not have a significant impact on ambient air quality (SCAQMD 2019a). The quantitative air quality analysis provided herein applies the SCAQMD thresholds to determine the potential for the Project to result in a significant impact under CEQA. The SCAQMD mass daily construction thresholds are as follows: 75 pounds per day for VOC, 100 pounds per day for NO_x, 550 pounds per day for CO, 150 pounds per day for SO_x, 150 pounds per day for PM_{10}, and 55 pounds per day for $PM_{2.5}$. The SCAQMD mass daily operational thresholds are as follows: 55 pounds per day for VOC, 55 pounds per day for NO_x, 550 pounds per day for CO, 150 pounds per day for SO_x, 150 pounds per day for PM_{10}, and 55 pounds per day for $PM_{2.5}$.

The following discussion quantitatively evaluates Project-generated impacts associated with construction and operational of the Project.

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. Proposed construction activities associated with the various Project components would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment and soil disturbance) and off-site sources (i.e., on-road haul trucks, delivery trucks, and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity; the specific type of operation; and, for dust, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated with a corresponding uncertainty in precise ambient air quality impacts.

The California Emissions Estimator Model (CalEEMod) Version 2016.3.2 was used to estimate emissions for construction of the Project. CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant emissions associated with construction activities from a variety of land use projects, such as residential, commercial, and industrial facilities. CalEEMod input parameters, including the land use type used to represent the Project and size, construction schedule, and anticipated construction equipment utilization, were based on information provided by the City of Santa Monica and default model assumptions when Project-specific data was not available.

Table 3.3-1 shows the construction phasing schedule, vehicle trip assumptions, and construction equipment mix used for estimating the Project-generated emissions.

Table 3.3-1. Construction Assumptions

	Schedule		One-Way Vehicle Trips			Equipment		
Phase Name	*Phase Start Date*	*Phase End Date*	*Avg. Daily Worker Trips*	*Avg. Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Equipment Type*	*Quantity*	*Usage Hours*
Olympic Well Field Restoration								
Well - SM-10 Grading - Well Pad	11/27/2020	12/10/2020	12	6	36	Cement and Mortar Mixers	1	4
						Excavators		
Well - SM-10 Building Construction - Well Equipping	12/11/2020	1/14/2021	8	2	0	Bore/Drill Rigs (Well Drilling Rigs)	1	1
						Excavators		
Well - SM-10 Building Construction - Artistic Fencing	1/15/2021	2/04/2021	8	2	0	Excavators	1	4
Well - SM-8 Grading - Well Pad	11/27/2020	12/10/2020	12	6	36	Cement Mortar Mixers		
						Excavators		

Table 3.3-1. Construction Assumptions

	Schedule		One-Way Vehicle Trips			Equipment		
Phase Name	*Phase Start Date*	*Phase End Date*	*Avg. Daily Worker Trips*	*Avg. Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Equipment Type*	*Quantity*	*Usage Hours*
Well - SM-8 Building Construction - Well Equipping	12/11/2020	1/14/2021	8	2	0	Bore/Drill Rigs (Well Drilling Rigs)	1	1
						Excavators	1	1
Well - SM-8 Building Construction - Artistic Fencing	1/15/2021	2/04/2021	8	2	0	Excavators	1	4
Well - SM-9 Grading Well Pad	11/27/2020	12/10/2020	12	6	36	Cement and Mortar Mixers	1	4
						Excavators	1	4
Well - SM-9 Building Construction - Well Equipping	12/11/2020	1/14/2021	8	2	0	Bore/Drill Rigs (Well Drilling Rigs)	1	1
						Excavators	1	4
Well - SM-9 Building Construction - Artistic Fencing	1/15/2021	2/04/2021	8	2	0	Excavator	1	4
Well - SM-11 Grading - Well Pad	7/1/2023	7/14/2023	12	6	36	Cement and Mortar Mixers	1	4
						Excavators	1	4
Well - SM-11 Building Construction Well Equipping	7/15/2023	8/18/2023	8	2	0	Bore/Drill Rigs (Well Drilling Rigs)	1	1
						Excavators	1	4
Well - SM-11 Building Construction - Artistic Fencing	8/19/2023	9/08/2023	8	2	0	Excavators	1	4
Recycled Water Pipeline - Site Preparation	6/13/2023	6/13/2023	10	4	0	Pavers	1	8

Table 3.3-1. Construction Assumptions

Phase Name	Schedule		One-Way Vehicle Trips			Equipment		
	Phase Start Date	*Phase End Date*	*Avg. Daily Worker Trips*	*Avg. Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Equipment Type*	*Quantity*	*Usage Hours*
Recycled Water Pipeline - Grading - Installation	6/14/2023	6/27/2023	12	4		Excavators	2	8
						Rollers	1	4
Recycled Water Pipeline - Grading - Slurry Backfill	6/14/2023	6/27/2023	4	4	0	Cement and Mortar Mixers	1	4
Recycled Water Pipeline - Continual Paving	6/14/2023	6/27/2023	6	4	0	Pavers	1	8
						Rollers	1	8
Recycled Water Pipeline - Continual Pavement Striping	6/14/2023	6/27/2023	4	4	0	N/A	NA	NA
Recycled Water Pipeline - Final Paving	6/28/2023	6/29/2023	6	4	0	Pavers	1	8
						Paving Equipment (Milling Machine)	1	8
						Rollers	1	8
Recycled Water Pipeline - Final Pavement Striping	6/30/2023	6/30/2023	4	4	0	N/A	NA	NA
Olympic Pipeline								
Pipeline - Site Preparation	2/28/2021	3/5/2021	10	4	0	Pavers	1	8
Pipeline - Grading - Installation	3/6/2021	5/28/2021	12	4	510	Excavators	2	8
						Rollers	1	4

Table 3.3-1. Construction Assumptions

Phase Name	Schedule		One-Way Vehicle Trips			Equipment		
	Phase Start Date	*Phase End Date*	*Avg. Daily Worker Trips*	*Avg. Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Equipment Type*	*Quantity*	*Usage Hours*
Pipeline - Grading - Slurry Backfill	3/6/2021	5/28/2021	4	4	0	Cement and Mortar Mixers	1	4
Pipeline - Continual Paving	3/6/2021	5/28/2021	6	4	0	Pavers	1	8
						Rollers	1	8
Pipeline - Continual Pavement Striping	3/6/2021	5/28/2021	4	4	0	N/A	NA	NA
Pipeline - Final Paving	5/29/2021	6/11/2021	6	4	0	Pavers	1	8
						Paving Equipment (Milling Machine)	1	8
						Rollers	1	8
Pipeline - Final Pavement Striping	6/14/2021	6/14/2021	4	4	0	N/A	NA	NA
Olympic AWTF and Arcadia WTP Upgrades								
WTP - Demolition	1/21/2022	2/24/2022	14	0	70	Concrete/Industrial Saws	1	8
						Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	3	8
WTP – Site Preparation and Grading	2/1/2022	2/28/2022	12	0	84	Graders	1	8
						Rubber Tired Dozers	1	8
						Tractors/Loaders/Backhoes	2	8
WTP - Building Construction 1	3/1/2022	6/1/2022	10	2	0	Cranes	1	2
						Forklifts	1	4
						Generator Sets	1	8
						Tractors/Loaders/Backhoes	1	8

Table 3.3-1. Construction Assumptions

Phase Name	Schedule		One-Way Vehicle Trips			Equipment		
	Phase Start Date	*Phase End Date*	*Avg. Daily Worker Trips*	*Avg. Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Equipment Type*	*Quantity*	*Usage Hours*
WTP - Building Construction 2	3/1/2022	7/1/2022	12	2	0	Aerial Lifts (Manlifts)	1	4
						Cranes	1	2
						Rough Terrain Forklifts	1	8
WTP - Building Construction 3	3/1/2022	9/1/2022	12	2	0	Generator Sets	1	8
						Tractors/Loaders/Backhoes	1	8
WTP - Building Construction 4	3/1/2022	9/15/2022	16	2	0	Cranes	1	2
						Rough Terrain Forklifts	1	8
WTP - Building Construction 5	4/1/2022	5/13/2022	8	2	0	Rough Terrain Forklifts	1	8
WTP - Building Construction 6	5/1/2022	9/1/2022	24	2	0	Aerial Lifts (Manlifts)	1	4
						Bore/Drill Rigs	1	8
						Cranes	1	2
						Excavators	1	4
WTP - Building Construction 7	8/1/2022	11/1/2022	8	2	0	Aerial Lifts (Manlifts)	1	4
						Cranes	1	2
WTP - Architectural Coating	10/15/2022	1/24/2023	12	2	0	Air Compressors	1	8
WTP - Paving	11/1/2022	12/1/2022	12	4	0	Pavers	1	8
						Rollers	1	8

Note: Dates may vary from the exact dates listed here; however, the analysis assumes a construction start date of November 2020, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant and GHG emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$. Additionally, PM_{10} and $PM_{2.5}$ emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The Project would be required to comply with SCAQMD Rule 403 to control dust emissions during any dust-generating activities. SCAQMD Rule 403 requires implementation

of best available fugitive dust control measures for different sources for all construction activity sources, Dust control measures include, but are not limited to, maintain stability of soil through pre-watering of site prior to clearing, grubbing, cut and fill, and earth-moving activities; stabilize soil during and immediately after clearing, grubbing, cut and fill, and other earth-moving activities; stabilize backfill during handling and at completion of activity; and pre-water material prior to truck loading and ensure freeboard exceed six inches. While SCAQMD Rule 403 requires fugitive dust control beyond watering control measures, compliance with Rule 403 is represented in CalEEMod by assuming watering twice daily of active sites. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active grading areas two times per day, with additional watering depending on weather conditions.

Table 3.3-2 provides estimated maximum daily construction criteria air pollutant emissions from all on-site and off-site emission sources.

Table 3.3-2. Estimated Maximum Daily Construction Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}[a]	$PM_{2.5}$[a]
	pounds per day					
2020	0.82	9.94	8.26	0.03	1.00	0.41
2021	9.04	13.92	14.41	0.03	1.08	0.64
2022	3.40	35.45	31.55	0.07	4.83	3.09
2023	1.72	11.08	14.36	0.04	1.04	0.53
Maximum Daily Emissions	**9.04**	**35.45**	**31.55**	**0.07**	**4.83**	**3.09**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Appendix A for detailed results.

[a] These estimates reflect control of fugitive dust (watering two times daily) required by SCAQMD Rule 403, which is shown in the "mitigated" portion of the CalEEMod output in the unmitigated run.

As shown in Table 3.3-2, daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ during Project construction. Therefore, Project impacts during construction would be less than significant.

Long-Term Operational Impacts for All Project Components

Less-Than-Significant Impact. Once construction associated with the wells and Olympic Pipeline is complete, no operational activities associated with these components would occur (e.g., no routine daily equipment operation or vehicle trips would be required).

Operation of the Olympic AWTF and Arcadia WTP would generate minimal additional VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions compared to existing operation at the site from mobile sources and the new improvements. Specifically, emissions would be associated with two potential additional chemical vendor truck deliveries, area sources (consumer products and architectural coatings for repainting), and energy sources (combustion of fuels used for space and water heating), which are described below. The Project would not result in a net increase in landscape maintenance equipment activity compared to the existing conditions at the Arcadia WTP.

Area Sources. CalEEMod was used to estimate operational emissions from area sources at the proposed Olympic AWTF and Arcadia WTP, including emissions from consumer product use[5] and architectural coatings[6], which were based on CalEEMod default values and the square footage of the new buildings. As noted above, no increase in landscape maintenance equipment from existing conditions is anticipated to occur. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.[7]

Energy Sources. As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage (non-hearth). Inclusion of emissions from natural gas usage is conservative because the additional structures may not demand natural gas. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the power plant, which is typically off site.

CalEEMod default values for energy consumption for the additional buildings at the Arcadia WTP were applied for the Project analysis.[8] Title 24 of the California Code of Regulations serves to enhance and regulate California's building standards. The current Title 24, Part 6 standards, referred to as the 2019 Title 24 Building Energy Efficiency Standards, became effective on January 1, 2020. While the Project would be required to comply with the 2019 Title 24 Building Energy Efficiency Standards, the current version of CalEEMod assumes compliance with the 2016 Title 24 standards (CAPCOA 2017).[9] Use of energy assumptions that reflect 2016 Title 24 standards is conservative as the 2019 Title 24 standards reduce energy used and associated emissions compared to current standards.

Mobile Sources. The Project would result in no new employee trips. It was assumed that a maximum of one vendor truck (two one-way trips) for the delivery of chemicals would occur in one day. For the vendor truck emission calculation, it was assumed that 50% would be medium heavy-duty trucks and 50% would be heavy-heavy duty trucks traveling a 20-mile one-way distance.

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5 Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2017). Consumer product VOC emissions are estimated in CalEEMod based on the floor area of non-residential buildings and on the default factor of pounds of VOC per building square foot per day.

6 VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers using during building maintenance. CalEEMod calculates the VOC evaporative emissions from application of surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The total square footage of new development was conservatively assumed; however, the majority of the new surfaces are not anticipated to require coating. The VOC emission factor is based on the VOC content of the surface coatings, and SCAQMD's Rule 1113 (Architectural Coatings) governs the VOC content for interior and exterior coatings.

7 CalEEMod also calculates the area source emissions from the combustion of wood or natural gas in stoves and fireplaces; however, the Project does not include stoves or fireplaces.

8 The energy use from non-residential land uses is calculated in CalEEMod based on the California Commercial End-Use Survey database. Energy use in buildings (both natural gas and electricity) is divided by the program into end-use categories subject to Title 24 requirements (end uses associated with the building envelope, such as the heating, ventilation, and air conditioning (HVAC) system, water heating system, and integrated lighting) and those not subject to Title 24 requirements (such as appliances, electronics, and miscellaneous "plug-in" uses).

9 Per the CEC Impact Analysis for the 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings, the first-year savings for newly constructed non-residential buildings, are 197 gigawatt hours of electricity, 76.6 megawatt of demand, and 0.27 million therms of gas, representing reductions from the 2016 Title 24 standard of 10.7%, 9%, and 1%, respectively. In general, nonresidential buildings built to the 2019 standards are anticipated to use an estimated 30% less energy than those built to the 2016 standards.

Table 3.3-3 presents the maximum daily emissions associated with operation of the Project in 2024 at build out. The values shown are the maximum summer and winter daily emissions results from CalEEMod for area, energy, and mobile source emissions. Complete details of the emissions calculations are provided in Appendix A.

Table 3.3-3. Estimated Maximum Daily Operational Emissions

Emission Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	pounds per day					
Area	1.45	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.05	0.04	0.00	0.00	0.00
Mobile	0.01	0.22	0.09	0.00	0.04	0.01
Total	**1.46**	**0.27**	**0.13**	**0.00**	**0.04**	**0.01**
SCAQMD Threshold	***55***	***55***	***550***	***150***	***150***	***55***
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Appendix A for complete results.
The values shown are the maximum summer or winter daily emissions results from CalEEMod.

As shown in Table 3.3-3, maximum daily operational emissions of VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ generated by the Project would not exceed the SCAQMD's significance thresholds.

As previously discussed, the SCAB has been designated as a federal nonattainment area for O_3 and $PM_{2.5}$, and a state nonattainment area for O_3, PM_{10}, and $PM_{2.5}$. The nonattainment status is the result of cumulative emissions from various sources of air pollutants and their precursors within the SCAB, including motor vehicles, off-road equipment, and commercial and industrial facilities. Construction and operational activities of the Project would generate VOC and NO_x emissions (precursors to O_3) and emissions of PM_{10} and $PM_{2.5}$. However, as indicated in Tables 3.3-2 and 3.3-3, Project-generated emissions would not exceed the SCAQMD emission-based significance thresholds for VOCs, NO_x, PM_{10}, or $PM_{2.5}$.

Cumulative localized impacts would potentially occur if a project were to occur concurrently with another off-site project. Schedules for potential future projects near the Project component areas are currently unknown; therefore, potential impacts associated with two or more simultaneous projects would be considered speculative.10 However, future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by the SCAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all sites in the SCAQMD. In addition, cumulative VOC emissions would be subject to SCAQMD Rule 1113 (Architectural Coatings).

Therefore, the Project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and impacts would be less than significant during operation.

[10] The California Environmental Quality Act (CEQA) Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).

Health Effects of Criteria Air Pollutants

Construction and operational emissions of the Project would not exceed the SCAQMD thresholds for any criteria air pollutants, including VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$.

Health effects associated with O_3 include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2019b). VOCs and NO_x are precursors to O_3, for which the SCAB is designated as nonattainment with respect to the NAAQS and CAAQS. The contribution of VOCs and NO_x to regional ambient O_3 concentrations is the result of complex photochemistry. The increases in O_3 concentrations in the SCAB due to O_3 precursor emissions tend to be found downwind of the source location because of the time required for the photochemical reactions to occur. Further, the potential for exacerbating excessive O_3 concentrations would also depend on the time of year that the VOC emissions would occur, because exceedances of the O_3 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. Due to the lack of quantitative methods to assess this complex photochemistry, the holistic effect of a single project's emissions of O_3 precursors is speculative. That being said, because the Project would not exceed the SCAQMD thresholds, the Project would not contribute to health effects associated with O_3.

Health effects associated with NO_x include lung irritation and enhanced allergic responses (CARB 2019b). Because Project-related NO_x emissions would not exceed the SCAQMD mass daily thresholds, and because the SCAB is a designated attainment area for NO_2 (and NO_2 is a constituent of NO_x) and the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards, it is not anticipated that the Project would cause an exceedance of the NAAQS and CAAQS for NO_2 or result in potential health effects associated with NO_2 and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2019b). CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots are discussed below (in the potential to expose sensitive receptors to substantial pollutant concentrations evaluation) and determined to be less than significant. Thus, the Project's CO emissions would not contribute to significant health effects associated with CO.

Health effects associated with PM_{10} include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2019b). Construction of the Project would not exceed thresholds for PM_{10} or $PM_{2.5}$, would not contribute to exceedances of the NAAQS and CAAQS for particulate matter, and would not obstruct the SCAB from coming into attainment for these pollutants. The Project would also not result in substantial diesel particulate matter emissions during construction. Additionally, the Project would be required to comply with SCAQMD Rule 403, which limits the amount of fugitive dust generated during construction. Due to the minimal contribution of particulate matter during construction, the Project is not anticipated to result in health effects associated with PM_{10} or $PM_{2.5}$.

In summary, construction and operation of the Project would not result in exceedances of the SCAQMD significance thresholds for criteria pollutants, and potential health effects associated with criteria air pollutants would be less than significant.

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

Impacts for All Project Components

Less-Than-Significant Impact With Mitigation Incorporated. The Project would result in less than significant impacts relating to LSTs, CO hotspots, and toxic air contaminants (TACs).

Localized Significance Thresholds

The SCAQMD recommends an LST analysis to evaluate localized air quality impacts to sensitive receptors in the immediate vicinity of the Project as a result of Project activities. The impacts were analyzed using methods consistent with those in the SCAQMD's Final Localized Significance Threshold Methodology (2008a). The Project is located within Source-Receptor Area 2 (Northwest Coastal Los Angeles County). Since most Project components were near sensitive receptors, one LST set was applied. This analysis applies the SCAQMD LST values for a 1-acre site within Source-Receptor Area 34 with a receptor distance of 82 feet, given that daily disturbed area for the Project would be less than 1 acre and this is the most stringent threshold; the closest distance for the look-up table LST values is 82 feet.

Project construction activities would result in temporary on-site criteria air pollutant emissions from off-road equipment exhaust and fugitive dust generation. According to the Final Localized Significance Threshold Methodology, "off-site mobile emissions from the Project should not be included in the emissions compared to the LSTs" (SCAQMD 2008a). Trucks and worker trips associated with the Project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Therefore, off-site emissions from trucks and worker vehicle trips are not included in the LST analysis. The maximum daily on-site emissions generated during construction of the Project by component are presented in Table 3.3-4 and compared to the SCAQMD localized significance criteria for Source-Receptor Area 34 to determine whether Project-generated on-site emissions would result in potential LST impacts.

Table 3.3-4. Construction Localized Significance Thresholds Analysis – Unmitigated

Project Component	NO_2	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day (On Site)			
SM-10i (2020/2021)	1.65	1.90	0.09	0.07
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	**No**	**No**	**No**	**No**
SM-8 (2020/2021)	1.65	1.90	0.09	0.07
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	**No**	**No**	**No**	**No**
SM-9 (2020/2021)	1.65	1.90	0.10	0.07
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	**No**	**No**	**No**	**No**
SM-11i (2023)	1.03	1.88	0.05	0.04
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	**No**	**No**	**No**	**No**

Table 3.3-4. Construction Localized Significance Thresholds Analysis – Unmitigated

Project Component	NO_2	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day (On Site)			
Recycled Water Pipeline (2023)	7.85	12.42	0.43	0.36
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	**No**	**No**	**No**	**No**
Olympic Pipeline (2021)	10.36	12.53	0.56	0.49
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	**No**	**No**	**No**	**No**
Olympic AWTF and Arcadia WTP Expansion (2022)	33.60	28.20	4.41	2.97
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	**No**	**No**	**Yes**	**No**

Source: SCAQMD 2008a.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
See Appendix A for detailed results.
[a] Localized significance thresholds are shown for a 1-acre disturbed area corresponding to a distance to a sensitive receptor of 82 feet in Source-Receptor Area 2 (Northwest Coastal Los Angeles County).

As shown in Table 3.3-4, proposed construction activities would not generate emissions in excess of site-specific LSTs for NO_2 (NO_x), CO, and $PM_{2.5}$ during construction of all Project components; however, on-site emissions of PM_{10} would exceed the LST during construction of the Olympic AWTF and Arcadia WTP Expansion (during overlap of the demolition and site preparation and grading phases). Therefore, localized impacts of the Project would be less than significant for NO_2 (NO_x), CO, and $PM_{2.5}$, but potentially significant for PM_{10}.

The Project would be required to implement MM-AQ-1 and MM-AQ-2 to reduce potentially significant impacts related to PM_{10} for the Olympic AWTF and Arcadia WTP Expansion component.

MM-AQ-1: Prior to the commencement of construction activities at the Arcadia Water Treatment Plant, the City shall require its construction contractor to demonstrate that all 50-horsepower or greater diesel-powered equipment is powered with California Air Resources Board (CARB)-certified Tier 4 Interim engines. An exemption from this requirement may be granted if equipment with Tier 4 Interim engines are not reasonably available and the required corresponding reductions in criteria air pollutant emissions can be achieved from other combinations of construction equipment, such as using equipment with Tier 4 Final engines. Before an exemption may be granted, the City's construction contractor shall: (1) demonstrate that at least two construction fleet owners/operators in Los Angeles County were contacted and that those owners/operators confirmed Tier 4 Interim equipment could not be located within Los Angeles County during the desired construction schedule; and (2) the proposed replacement equipment has been evaluated using CalEEMod and documentation provided to the City to confirm that Project-generated emissions do not exceed applicable localized significance thresholds (LST) for nitrogen dioxide (NO_2), carbon monoxide (CO), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), and particulate matter with an aerodynamic diameter less than or equal

to 2.5 microns ($PM_{2.5}$), and the SCAQMD carcinogenic (cancer) risk threshold. If these requirements cannot be met, construction activities at the Arcadia Water Treatment Plant shall be postponed until CARB-certified Tier 4 Interim engines are available for use.

MM-AQ-2: Prior to the commencement of construction activities at the Arcadia Water Treatment Plant, the City shall require its construction contractor to water any exposed soils and/or soil stockpiles at least three times daily, or utilize another SCAQMD-approved dust control non-toxic agent in accordance with the manufacturer's specifications, to minimize fugitive dust during construction.

SCAQMD Rule 403 does not specifically require watering of active sites three times per day for all construction activity sources; therefore, to ensure watering three times per day (roughly every two hours per an 8-hour day), MM-AQ-2 is required. Table 3.3-5 presents the maximum daily mitigated on-site emissions generated construction of the Olympic AWTF and Arcadia WTP Expansion component assuming implementation of MM-AQ-1 and MM-AQ-2 that would reduce exhaust PM_{10} emissions and fugitive dust emissions, respectively. Since MM-AQ-1 and MM-AQ-2 only apply to the Olympic AWTF and Arcadia WTP Expansion component, onsite emissions from other Project components are the same under unmitigated and mitigated conditions and are not shown in Table 3.3-5.

Table 3.3-5. Construction Localized Significance Thresholds Analysis – Mitigated

Project Component	NO_2	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day (On Site)			
Olympic AWTF and Arcadia WTP Expansion (2022)	19.90	35.20	2.53	1.38
SCAQMD LST Criteria[a]	*103*	*562*	*4*	*3*
Threshold Exceeded?	No	No	No	No

Source: SCAQMD 2008a.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
Emissions shown represent the maximum emissions during summer or winter as estimated in CalEEMod.
Estimated emissions include Tier 4 Interim equipment for all equipment over 50 horsepower (MM-AQ-1) and watering of the active grading sites three times per day (MM-AQ-2). When applying the engine tier mitigation in CalEEMod, CalEEMod assumes the diesel engine emission standards set for that selected tier and engine power class for CO, non-methane hydrocarbons (VOC), NO_x and PM. The CO standard for Tier 4 Interim is higher than what is typically observed when using non-tiered equipment, resulting in higher estimated mitigated CO emissions than unmitigated emissions in some years.
MM-AQ-1 and MM-AQ-2 only apply to the Olympic AWTF and Arcadia WTP Expansion component, so onsite emissions from other Project components are the same under unmitigated and mitigated conditions.
See Appendix A for detailed results.
[a] Localized significance thresholds are shown for a 1-acre disturbed area corresponding to a distance to a sensitive receptor of 82 feet in Source-Receptor Area 2 (Northwest Coastal Los Angeles County).

As shown in Table 3.3-5, implementation of MM-AQ-1 and MM-AQ-2 would reduce on-site construction emissions at the Olympic AWTF and Arcadia WTP site below the site-specific LST for PM_{10}. Impacts associated with localized criteria air pollutant emissions would be less than significant with incorporation of MM-AQ-1 and MM-AQ-2.

CO Hotspots

Traffic-congested roadways and intersections have the potential to generate localized high levels of CO. Localized areas where ambient concentrations exceed federal and/or state standards for CO are termed "CO hotspots." The transport of CO is extremely limited, as it disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors. Typically, high CO concentrations are associated with severely congested intersections operating at an unacceptable level of service (LOS) (LOS E or worse is unacceptable). Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted if a project would result in a significant impact or contribute to an adverse traffic impact at a signalized intersection that would potentially subject sensitive receptors to CO hotspots.

At the time that the SCAQMD 1993 Handbook was published, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO. In 2007, the SCAQMD was designated in attainment for CO under both the CAAQS and NAAQS as a result of the steady decline in CO concentrations in the SCAB due to turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities. The SCAQMD conducted CO modeling for the 2003 AQMP (Appendix V, Modeling and Attainment Demonstrations, in SCAQMD 2003b) for the four worst-case intersections in the SCAB: (1) Wilshire Boulevard and Veteran Avenue, (2) Sunset Boulevard and Highland Avenue, (3) La Cienega Boulevard and Century Boulevard, and (4) Long Beach Boulevard and Imperial Highway. At the time the 2003 AQMP was prepared, the intersection of Wilshire Boulevard and Veteran Avenue was the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day. Using CO emission factors for 2002, the peak modeled CO 1-hour concentration was estimated to be 4.6 parts per million (ppm) at the intersection of Wilshire Boulevard and Veteran Avenue. The 1-hour CO CAAQS is 20 ppm; therefore, even when adding the background CO concentrations to the added CO concentrations at the study intersections, CO emissions did not exceed the 1-hour CO CAAQS. The 2003 AQMP also projected 8-hour CO concentrations at these four intersections for 1997 and from 2002 through 2005. From years 2002 through 2005, the maximum 8-hour CO concentration was 3.8 ppm at the Sunset Boulevard and Highland Avenue intersection in 2002; the maximum 8-hour CO concentration was 3.4 ppm at the Wilshire Boulevard and Veteran Avenue in 2002. As the 8-hour CO CAAQS is 9 ppm, with the addition of background CO concentrations, the CO concentration at the study intersections did not exceed the 8-hour CO CAAQS.

Accordingly, CO concentrations at intersections would not exceed the 1-hour or 8-hour CO CAAQS unless projected daily traffic would be at least over 100,000 vehicles per day. Because operation of the Project would result in a maximum of one delivery truck round trip (two one-way trips) per day, it would not increase daily traffic volumes at any study intersection to more than 100,000 vehicles per day, a CO hotspot is not anticipated to occur and associated impacts would be less than significant. This conclusion is supported by the analysis in Section 3.17, which demonstrates that traffic impacts would be less than significant. In addition, due to continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCAB is steadily decreasing. Based on these considerations, the Project would result in a less-than-significant impact to air quality with regard to potential CO hotspots.

Health Risk Assessment

Construction

In addition to impacts from criteria pollutants, certain projects may include emissions of pollutants identified by the state and federal government as toxic air contaminants (TACs) or hazardous air pollutants. State law has established the framework for California's TAC identification and control project, which is generally more stringent than the federal project, and is aimed at TACs that are a problem in California. The state has formally identified more than 200 substances as TACs, including the federal hazardous air pollutants, and is adopting appropriate control measures for sources of these TACs.

The greatest potential for TAC emissions during Project construction would be diesel particulate emissions from heavy equipment operations and heavy-duty trucks. In an abundance of caution, a health risk assessment (HRA) was performed for the Olympic AWTF and Arcadia WTP Expansion component. Well field construction activities would occur over a short period of time (2.5 months) and pipeline construction would occur in a linear fashion where emissions would not be concentrated in one location for a prolonged period of time. Based on the anticipated duration of construction, the intensity of construction, and the location of nearby sensitive receptors (see Figure 13), the Olympic AWTF and Arcadia WTP expansion component represents the maximum condition for the construction HRA.

The Office of Environmental Health Hazard Assessment's (OEHHA's) most recent guidance is the *2015 Risk Assessment Guidelines Manual* (OEHHA 2015), which was adopted in 2015 to replace the 2003 HRA Guidance Manual. The Children's Environmental Health Protection Act of 1999 (Senate Bill [SB] 25), which requires explicit consideration of infants and children in assessing risks from air toxics, requires revisions of the methods for both non-cancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA Guidance Manual. Cancer risk parameters, such as age-sensitivity factors, daily breathing rates, exposure period, fraction of time at home, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in Hotspots Analysis and Reporting Program Version 2 (HARP2). SCAQMD's Modeling Guidance for American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2019b) and Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (SCAQMD 2003c) provides guidance to perform dispersion modeling for use in HRAs within the SCAB.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SCAQMD recommends a carcinogenic (cancer) risk threshold of 10 in one million. Some TACs increase noncancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index (HIC) is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The Chronic Hazard Index estimates for all receptor types used the Risk Management Policy using the Derived calculation method (SCAQMD 2017b). A hazard index less than one (1.0) means that adverse health effects are not expected. Within this analysis, noncarcinogenic exposures of less than 1.0 are considered less than significant. The SCAQMD recommends a HIC significance threshold of 1.0 (project increment) and an acute hazard index of 1.0. The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. Diesel particulate matter (DPM) has established cancer risk factors and relative exposure values for long term chronic health hazard impacts. No short-term, acute relative exposure values are established and regulated and are therefore not addressed in this assessment.

The dispersion modeling was performed using the American Meteorological Society/U.S. Environmental Protection Agency Regulatory Model (AERMOD), which is the model SCAQMD requires for atmospheric dispersion of emissions. AERMOD (version 19191) is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2019b).

Dudek evaluated the Project's potential cancer and noncancer health impacts using exposure periods appropriate to evaluate short-term emission increases (third trimester to 12 months). Emissions dispersion of DPM was modeled using AERMOD, then cancer risk and noncancer health impacts subsequently using the CARB HARP2. HARP2 (ADMRT, version 19121) implements the March 2015 OEHHA age-weighting methodology for assessing toxics risks. The chemical exposure results were then compared to SCAQMD thresholds to assess Project impact significance. Principal parameters of this modeling are presented in Table 3.3-6.

Table 3.3-6. Olympic AWTF and Arcadia WTP Expansion Construction Health Risk Assessment American Meteorological Society/EPA Regulatory Model Construction Principal Parameters

Parameter	Details
Meteorological Data	The SCAQMD requires the use of AERMOD for air dispersion modeling. The latest 5-year meteorological data for the Santa Monica Airport station (KSMO, Station ID 93197) from SCAQMD were downloaded, then input to AERMOD. For cancer or chronic noncancer risk assessments, the average cancer risk of all years modeled was used.
Urban versus Rural Option	Urban areas typically have more surface roughness as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected.
Terrain Characteristics	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset dataset with resolution of 1/3 arc-second was used (SCAQMD 2019).
Emission Sources and Source Release Parameters	Air dispersion modeling of construction activities was conducted using emissions generated using CalEEMod, assuming 5 days per week and 22 days per month. For modeling construction emissions dispersion using AERMOD, it was assumed that the active construction areas would have construction activities for a duration of 12 months. The construction equipment DPM emissions was modeled as a series of volume sources located where construction activity is anticipated to occur. The volume sources were assumed to have a release height of 5 meters, an initial lateral dimension of height of 2.33 meters, and an initial vertical dimension of 4.65 meters. (EPA 2004, SCAQMD 2008a).

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

This HRA evaluated impacts using a uniform Cartesian grid of receptors spaced 50 meters apart (165 feet), 1,000 meters (3,280 feet) from the Project site, and then converted to discrete receptors. To ensure receptors near the Project site are adequately captured, a fine uniform Cartesian grid of receptors spaced 25 meters apart (82 feet), extending 500 meters (1,640 feet) from the Project site, along with a line of receptors located 20 meters (65 feet) from the plant boundary spaced 20 meters (65 feet) apart, were included, which were then converted to discrete receptors.

Use of heavy-duty construction equipment is subject to a CARB Airborne Toxics Control Measure for in-use diesel construction equipment to reduce diesel particulate emissions, and use of diesel trucks are also subject to an Airborne Toxics Control Measure. The results of the HRA for construction at the Olympic AWTF and Arcadia WTP are provided in Table 3.3-7.

Table 3.3-7. Olympic AWTF and Arcadia WTP Expansion Component Construction Activity Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
MICR (residential)	Per Million	54.83	10.0	Potentially Significant
HIC	Not Applicable	0.062	1.0	Less than Significant

Source: Appendix A.
Notes: CEQA = California Environmental Quality Act; MICR = Maximum Individual Cancer Risk. HIC = Chronic Hazard Index.

The results of the construction analysis for the Olympic AWTF and Arcadia WTP demonstrate that the construction emissions result in a potential MICR at nearby residential receptors above the 10 in a million cancer risk threshold, but below the HIC threshold. The Project construction TACs impact associated with cancer risk from DPM emissions would be potentially significant.

To reduce DPM (exhaust PM) emissions and associated health risk, the Project shall implement MM-AQ-1, as required for the LST analysis.

Table 3.3-8 presents estimated health risk results for the construction HRA for the Olympic AWTF and Arcadia WTP Expansion Component with implementation of MM-AQ-1, which requires use of Tier 4 Interim equipment for all construction equipment above 50 horsepower.

Table 3.3-8. Olympic AWTF and Arcadia WTP Expansion Component Construction Activity Health Risk Assessment Results – Mitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
MICR	Per Million	5.49	10.0	Less than Significant
HIC	Not Applicable	0.0062	1.0	Less than Significant

Source: Appendix A.
Notes: CEQA = California Environmental Quality Act; MICR = Maximum Individual Cancer Risk. HIC = Chronic Hazard Index. Estimated emissions include Tier 4 Interim equipment for all equipment over 50 horsepower (MM-AQ-1).

As shown in Table 3.3-8, with implementation of MM-AQ-1, Tier 4 Interim Equipment, estimated cancer risk as a result of construction of the Olympic AWTF and Arcadia WTP component would be reduced below the 10 in a million cancer risk threshold resulting in a less than significant impact with mitigation.

Operation

Following completion of construction activities at the Olympic AWTF and Arcadia WTP, Project-related TAC emissions would cease. Health impacts associated with TACs are generally associated with long-term exposure and there are no meaningful sources of TACs for the operating phase of the Project; therefore, no

reason to expect health impacts related to TACs. Because no operational TACs are anticipated to occur as a result of operation of the Project, impacts would be less than significant.

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

Other emissions associated with the Project are anticipated to be limited to odors, which is assessed herein. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying, cause distress among the public, and generate citizen complaints.

Olympic Well Field Restoration

Less-Than-Significant Impact. During the Olympic Well Field Restoration and recycled water pipeline construction, exhaust from equipment may produce discernible odors typical of most construction sites. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. However, such odors would disperse rapidly from the active site and generally occur at magnitudes that would not affect substantial numbers of people. Accordingly, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). After the wellheads are completed, no routine operational activity is associated other than additional electrical needs (addressed under GHG emissions), which would not produce an odor. Because the Project would not create any new sources of odor during operation, Project operations would result in a less than significant related to other emissions (i.e., odors).

Olympic Pipeline

Less-Than-Significant Impact. During the Olympic Pipeline construction, exhaust from equipment may produce discernible odors typical of most construction sites. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. However, such odors would disperse rapidly from the active site and generally occur at magnitudes that would not affect substantial numbers of people. Accordingly, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). Upon completion of the Olympic Pipeline, no routine operational activity is associated other than additional electrical needs (addressed under GHG emissions), which would not produce an odor. Because the Project would not create any new sources of odor during operation, Project operations would result in a less than significant related to other emissions (i.e., odors).

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. During the Olympic AWTF and Arcadia WTP Expansion construction, exhaust from equipment may produce discernible odors typical of most construction sites. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. However, such odors would disperse rapidly from the active site and generally occur at magnitudes that would not affect substantial numbers of people. Accordingly, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). Project operational activities at the Olympic AWTF and Arcadia WTP would entail operation of water treatment facilities and equipment (for treatment of groundwater – not wastewater), and minimal additional vehicle trips to the site for deliveries, which would not result in an odor. Because the Project would not create any new sources of odor during operation, Project operations would result in a less than significant related to other emissions (i.e., odors).

3.4 Biological Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☒	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☒	☐	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☒	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

Existing Setting

A desktop search was conducted using relevant regional databases for special-status species within the project's U.S Geologic Survey's Beverly Hills, California 7.5-minute topographic quadrangle (CDFW 2020; CNPS 2020). .A limited number of sensitive or special status species occurrences have been recorded within the Beverly Hills quadrant. This includes 18 special status wildlife species and 20 special status plant species. However, there were no recorded occurrences within any of the proposed Project components. Additionally, the entire Project site is located within highly developed and urbanized areas as further discussed below.

Olympic Well Field Restoration

The proposed groundwater production wells SM-8 and SM-9, the proposed groundwater injection well SM-10i, and the well to be decommissioned (SM-3) are within the public right-of-way median of Olympic Boulevard. The existing median separates the two-lane Olympic Boulevard and is grass-covered with several scattered trees. Additionally, the proposed Project would potentially include construction of injection well SM-11i within Ishihara Park, which was completed in 2017 and consists of ornamental landscaping features. There are currently nine Ficus trees (*Ficus benjamina*) located in the eastern portion of the park in the proposed location for SM-11i. The proposed recycled water pipeline alignment and associated trenching would be entirely contained within publicly-owned right-of-way within the City of Santa Monica.

The City of Santa Monica is generally urbanized, with few areas of native wildlife habitat occurring within the City limits. The nearest wildlife habitat occurs along the coast at Santa Monica State Beach. Substantial forested open space occurs in the Santa Monica Mountains, located approximately 2.8 miles to the north of Olympic Boulevard. The majority of the City of Santa Monica has been developed, paved, or landscaped, and is generally devoid of large expanses of habitat that support sensitive species. No major regional wildlife migration corridors are known to exist within the City limits. No native riparian habitat, blueline streams, wetlands, or sensitive natural communities are located in the City limits. The beach areas of the City do provide foraging and roosting opportunities for several special status species (e.g., least terns, snowy plovers). The City is not recognized as an existing or proposed Significant Ecological Area (SEA) that links wildlife populations (Los Angeles County Department of Regional Planning 2015). In addition, the City's Land Use and Circulation Element (LUCE) EIR identifies a limited number of threatened or endangered species that are likely to occur in the City (City of Santa Monica 2010a).

Olympic Pipeline

City of Santa Monica

The pipeline alignment and associated trenching would be entirely contained within City-owned property and within publicly-owned right-of-way within the City of Santa Monica. The developed/disturbed land cover consists of pavement, roads, parking areas, and generally lacks vegetation. This land cover type occurs throughout the entire study area and includes the following streets: Berkeley Avenue, Nebraska Avenue, Colorado Avenue, and Arizona Avenue. As previously addressed the City of Santa Monica and the proposed Olympic Pipeline within the City does not contain major wildlife corridors, native riparian habitat, nor natural communities.

City of Los Angeles

The pipeline alignment and associated trenching would be entirely contained within City-owned property and within publicly-owned right-of-way within the City of Los Angeles within Saltair Avenue (or Bundy Drive) and Berkeley Avenue. The Olympic Pipeline is located in an urbanized area within the City of Los Angeles and does not contain any critical habitat or support any species identified.

Olympic AWTF and Arcadia WTP Expansion

The proposed Olympic AWTF and Arcadia WTP Expansion components consist of the demolition and expansion of areas within the existing Arcadia WTP property in the City of Los Angeles. The Arcadia WTP is comprised of developed buildings, ornamental landscape, paved roads and parking lots. Due to the highly urbanized location of this plant, there are no wildlife corridors or sensitive vegetation communities that can occur within the Project area.

Impact Analysis

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

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. Construction activities at all Project sites would require the use of heavy equipment, grading/earthwork, and building construction, which all have the potential to generate noise and air pollutants. Therefore, short-term construction has the potential to impact urban wildlife (e.g., small mammals, birds). Potential impacts to nesting birds are discussed under Threshold 3.4(c) below. The proposed Project components would all be located on urban and fully developed properties located in an urban setting dominated by development and ornamental landscaping. Due to the existing urban land uses and roadways surrounding each site, the lack of native vegetation communities that could provide habitat for special-status species, and developed condition of the Project sites, the potential for any special-status species to occur is low. According to the Information from Planning and Consultation by the U.S Fish and Wildlife Service, the Project sites are not located within any designated critical habitat (USFWS 2020). Therefore, the potential for the Project's short-term construction activities to substantially directly or indirectly adversely affect candidate, sensitive, or special-status species, is considered low. Impacts would be less than significant and no mitigation is required.

Olympic Well Field Restoration

No Impact. As described above, there are no native vegetation communities that could provide habitat for candidate, sensitive, or special status species on the Project site or in directly adjacent properties. The operation of the Olympic Well Field would not result in any land use changes that could substantial adversely effect, either directly or through habitat modifications, any species identified as a candidate, sensitive, or special-status.

Olympic Pipeline

No Impact. As described above, there are no native vegetation communities that could provide habitat for candidate, sensitive, or special status species on the Olympic Pipeline alignment or in directly adjacent properties. The operation of the pipeline would not result in any land use changes that could substantial adversely effect, either directly or through habitat modifications, any species identified as a candidate, sensitive, or special-status.

Olympic AWTF and Arcadia WTP Expansion

No Impact. As described above, there are no native vegetation communities that could provide habitat for candidate, sensitive, or special status species on the Arcadia WTP site or in directly adjacent areas. The operation of the Olympic AWTF and Arcadia WTP Expansion would not result in any land use changes that could substantial adversely effect, either directly or through habitat modifications, any species identified as a candidate, sensitive, or special-status.

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

Olympic Well Field Restoration

No Impact. As previously stated in Section 3.4(a), the proposed well locations are not within any designated critical habitat. These wells are located in an already urbanized and developed setting and generally consists of ornamental vegetation. No riparian habitat or other sensitive natural communities exist within the project site (USFWS 2020). Therefore, no impacts to sensitive nature communities would occur.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline and associated trenching would be entirely contained within City-owned property and within publicly-owned right-of-way within the cities of Santa Monica and Los Angeles. The proposed Olympic Pipeline does not contain any critical habitat within the alignment (USFWS 2020). The Olympic Pipeline would travel from the cities of Santa Monica and Los Angeles throughout the already developed streets, which generally consist of ornamental vegetation and no sensitive habitat. Therefore, no impacts to riparian or other sensitive natural communities would occur.

Olympic AWTF and Arcadia WTP Expansion

No Impact. The existing Arcadia WTP does not contain any critical habitat (USFWS 2020). Any construction associated with the Olympic AWTF and Arcadia WTP Expansion would be contained to the already developed Arcadia WTP. Therefore, no impacts to riparian or other sensitive natural communities would occur.

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

Olympic Well Field Restoration

No Impact. There are no state or federally protected wetlands within the proposed well locations. There will be no removal, filling, or hydrological interruption of any protected wetlands. Additionally, the proposed well locations do not have wetlands within the proposed Project areas. No impacts to jurisdictional waters or wetlands would occur.

Olympic Pipeline

No Impact. There are no wetlands within the proposed alignment. The proposed Olympic Pipeline is located entirely within urbanized and developed land. Therefore, it would not have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act, and no impacts would occur.

Olympic AWTF and Arcadia WTP Expansion

No Impact. There are no wetlands within the existing Arcadia WTP. The proposed Olympic pipeline is located entirely within urbanized and developed land. Therefore, it would not have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act, and no impacts would occur.

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

Olympic Well Field Restoration

Less-Than-Significant Impact With Mitigation Incorporated. The proposed well locations are located entirely within urbanized and developed areas. According to Los Angeles County, this Project area is not considered a Significant Ecological Area that links migratory populations (Los Angeles County Department of Regional Planning 2015). No wildlife corridors, native wildlife nursery sites, or bodies of water with fish are located within the project site. The potential proposed installation of SM-11i would result in the removal of nine Ficus trees during construction. Therefore, direct impacts to nesting birds could result from removal of potential nesting and foraging habitat. To avoid potential direct impacts to nesting birds, the proposed Project would implement mitigation measure MM-BIO-1.

MM-BIO-1 Commencement of construction activities at the Arcadia Water Treatment Plant and Olympic Well Field shall avoid the February 1 through August 31 bird nesting season to the extent feasible. If construction activities must begin within this nesting season, a survey for nesting birds shall be

conducted by a qualified biologist within 7 days before commencement of construction activities. The area surveyed shall include all clearing/construction areas, as well as areas within 100 feet of the boundaries of these areas, or as otherwise determined by the biologist. If no active bird nests are identified on, or within 100 feet of the limits of the proposed disturbance area, no further action is necessary and construction activities could commence.

If active nests are found during pre-construction surveys or at any time throughout the course of construction activities during the nesting bird season, all clearing/construction activities within a minimum 100 feet of the nest shall be postponed until a wildlife biologist has identified the nesting species. If the bird species is not protected under the Migratory Bird Treaty Act (MBTA) and/or the California Fish and Game Code, no further action is required and construction activities may proceed. If the avian species is protected under the MBTA and/or the California Fish and Game Code, a minimum buffer zone shall be established by the qualified biologist based on the type of bird/raptor species identified and the construction buffer shall be established on site through the erection of cones/flagging/fencing to clearly delineate the protection zone. All construction activities shall avoid this protection zone until a qualified biologist has confirmed that the nest(s) is no longer active and the nest is vacated, and there is no evidence of second nesting attempts.

With implementation of MM-BIO-1, impacts to nesting birds from construction-related activities would be less than significant.

Olympic Pipeline

No Impact. As previously described, the Olympic Pipeline is located entirely within urbanized and developed areas. According to Los Angeles County, the proposed alignment and surrounding area is not considered a Significant Ecological Area that links migratory populations (Los Angeles County Department of Regional Planning 2015). No wildlife corridors, native wildlife nursery sites, or bodies of water with fish are located within the project site. Therefore, no impact would occur.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact With Mitigation Incorporated. As previously described, the existing Arcadia WTP is located entirely within an urbanized and developed area. According to Los Angeles County, the existing Arcadia WTP not considered a Significant Ecological Area that links migratory populations (Los Angeles County Department of Regional Planning 2015). No wildlife corridors, native wildlife nursery sites, or bodies of water with fish are located within the project site. Although vegetation within the existing Arcadia WTP consists of ornamental trees and shrubs, they can potentially provide nesting and foraging for migratory birds. The proposed Arcadia WTP Expansion would result in the removal of 8 ornamental trees, *Magnolia grandiflora,* during construction of the concrete driveway to Saltair Avenue. Therefore, direct impacts to nesting birds could result from removal of potential nesting and foraging habitat. To avoid potential direct impacts to nesting birds, the proposed Project would implement mitigation measure MM-BIO-1. With implementation of MM-BIO-1, impacts to nesting birds from construction-related activities would be less than significant.

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

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed Project would be required to comply with the federal Endangered Species Act, federal Migratory Bird Treaty Act (MBTA), California Endangered Species Act, California Fish and Game Code, and the SMMC, Chapter 7.40 Tree Code. However, the proposed Project is in an already developed and highly urbanized site with ornamental landscape. The proposed Project does include the removal of up to nine ficus trees at Ishihara Park. Per Section 7.40.001, the City maintains the discretion and ability to plant, maintain, and remove public trees ~~within the public right-of-way~~. Additionally, coordination would be conducted with the City's Community and Cultural Services Division and the City's Urban Forester to provide replacement and/or planting of new trees as necessary. Therefore, as a City project, the proposed Project would not conflict with any local policies or ordinance regarding trees. Impacts would be less than significant.

Olympic Pipeline

No Impact. The Olympic Pipeline would be constructed within existing paved roadways and would not require the removal of any native or ornamental tree species or otherwise conflict with any local policies or ordinances protecting biological resources.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The existing Arcadia WTP is located in the City of Los Angeles within an already developed location generally surrounded by urban landscaping and ornamental vegetation. The Project does not include the removal of any protected trees, however, the proposed Project does require the removal of up to eight ornamental tree species, *Magnolia grandiflora*. Per Chapter 7.40, Tree Code, the removal of any City trees require a City permit to authorize such work. Given the fact that this is a City-sponsored project, internal coordination between City departments would ensure compliance with Chapter 7.40, Tree Code. Therefore, with compliance with local policies and interdepartmental coordination regarding tree replacements would ensure that impacts would be less than significant.

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

Impacts for All Project Components

No Impact. The Project site and surrounding area are heavily urbanized. There are no adopted Habitat Conservation Plans or Natural Community Conservation Plans that apply to the Project sites. Therefore, the proposed Project would not conflict with any approved conservation plans and no impact would occur.

3.5 Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☐	☒	☐

Existing Setting

A California Historical Resources Information System (CHRIS) records search was conducted at the South Central Coastal Information Center (SCCIC), located on the campus of California State University, Fullerton. The records search included the Project site and a 0.5-mile records search area. This search included their collections of mapped prehistoric and historic archaeological resources and historic built-environment resources, Department of Parks and Recreation Site Records, technical reports, archival resources, and ethnographic references. Additional consulted sources include historical maps of the study area, the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), the California Historic Property Data File, the lists of California State Historical Landmarks, California Points of Historical Interest, and the Archaeological Determinations of Eligibility. A complete discussion of the CHRIS records search results, historical context, and resource evaluations for each Project site area is available in Appendix B, Cultural Resources Technical Report.

All Project Components

CHRIS Records Search Results for Previously Recorded Historic Built Environment Resources

The CHRIS records search results indicate that 21 cultural resources have been previously recorded within 0.5-mile of the Project site. Two resources were adjacent to Project components. The NRHP eligible historic-era Santa Monica Air Line railroad segment (P-19-003803) is adjacent to the proposed SM-8 and SM-10i well sites, and one resource, the Mountain View Mobile Home Park (P-19-190932) is adjacent to the proposed recycled water pipeline.

Santa Monica Air Line Segment (P-19-003803)

The Santa Monica Air Line segment is located in the Southern Pacific Railroad (SPRR) right-of-way, and is adjacent to the proposed Project site where the SPRR right-of-way shifts from running parallel to Exposition Boulevard to running south of and parallel to Olympic Boulevard, west of Stewart Street in Santa Monica. It was recorded by EDAW in 2008 as consisting of the railroad easement and extant rail-related elements, though the report and site

record both indicate that long segments of rail, and rail-related features were damaged, missing, in disuse, or not extant. Despite this, the report concludes that the Santa Monica Air Line retains integrity of location, design, setting, feeling and association – enough to convey its significance as an NRHP-eligible linear resource. The Santa Monica Air Line was recommended eligible for the NRHP by a consensus through Section 106 process, as well as listed in the CRHR. It was found eligible under Criterion A for its significant role in the creation and development of the City of Santa Monica, and as an important commuter rail system that served to sustain a critical connection between downtown Los Angeles and Santa Monica.

Mountain View Mobile Home Park (P-19-190932)

This resource is located adjacent to the proposed recycled water pipeline, and consists of the Mountain View Mobile Home Park (originally known as the Mountain View Trailer Inn). The Mountain View Mobile Home Park encompass one permanent 1948 building, a below-ground swimming pool, 75 mobile home units (as of 2010), 105 mobile home pads, and accompanying landscaping. The 1948 building is the single permanent building, and is a flat roofed, one-story structure oriented northwest by southeast, with an aluminum addition on its southwest which has rendered the building L-shaped since 1962. The mobile home park was found to be a typical example of a mobile home park created after World War II and was determined not to be a historical resource under CEQA, as it lacked historical significance, architectural merit, and integrity. The consultant, BCR Consulting, assigned the resource a status code 6Z - found ineligible for CRHR, NRHP, or Local Designation through survey evaluation.

CHRIS Records Search Results for Previously Recorded Archaeological Resources

A CHRIS Records search was conducted for the entire Project area, including the locations for each of the Project site components and a 0.5-mile radius buffer. SCCIC records indicate that 20 previously recorded cultural resources were identified outside the Project site but within the 0.5-mile records search area. Of these 20, six are archaeological resources which include one prehistoric archaeological site (P-19-001063/CA-LAN-01063), three historic-era archaeological sites (P-19-003336/CA-LAN-03336, P-19-004666/CA-LAN-4666, and P-19-004668/CA-LAN-04668), and two multi-component sites consisting of both prehistoric and historic-era archaeological sites (P-19-000382/ CA-LAN-00382 and P-19-004669/ CA-LAN-04669). A brief summary of each archaeological resource is provided below.

One prehistoric archaeological site, P-19-001063/CA-LAN-01063, consists of a sparse surface scatter of prehistoric artifacts including milling implements, cores, flaked stone tools, and debitage. The site measured 60 meters by 25 meters (approximately 196 feet by 82 feet) and likely extended beyond the recorded boundary. According to the SCCIC records, the site was partially destroyed during development in 1984. This site is outside of the current Project site and is located approximately 0.18 miles northeast of the Arcadia Water Treatment Plant. This site has not been evaluated for NRHP/CRHR eligibility.

Three historic-era archaeological sites were also identified within the records search area. Site P-19-003336/CA-LAN-03336, consists of historic-era refuse uncovered within a trench during construction monitoring. Artifacts include glass bottle fragments, milled wood, brick, butchered bone, porcelain tableware and unidentified ferrous metal fragments. This site is outside of the current Project site, approximately 0.37 miles northeast of the Arcadia Water Treatment Plant. This site has not been evaluated for NRHP/CRHR eligibility. Site P-19-004666/CA-LAN-4666 consists of a historic refuse deposit that includes brick, terra cotta pipe fragments, concrete rubble, glass shards, a folding chair, and a coffee jar as well as a brick wall segment was. The historic-era refuse deposit was identified beneath the Santa Monica Air Line track and was interpreted as associated with the twentieth century

railroad construction and activity. This archeological site is outside of the current Project site, approximately 250 feet southwest of the southern terminus of the existing pipeline for the current Project, approximately 250 feet southwest of the new proposed SM-10i well location, on the south side of West Olympic Boulevard west of its the intersection with 26th Street. This site has not been evaluated for NRHP/CRHR eligibility. The third historic-era archaeological site is P-19-004668/CA-LAN-04668, which consists of a historic-era refuse deposit primarily composed of cosmetic containers dating between the 1940s and 1960s. The refuse deposit is located adjacent to the Santa Monica Air Line ROW and within the vicinity of numerous buildings previously housing cosmetic companies. The site is located outside the current Project site, approximately 0.11 miles northeast of the intersection of West Olympic Boulevard and South Centinela Avenue.

One multi-component site, P-19-000382/ CA-LAN-00382, consists of the historic-era University High School campus built on a prehistoric village site that is located around a collection of freshwater springs known as Serra Springs. The prehistoric site was first reported circa 1925 during the construction of the University High School Campus. The prehistoric site included burials, stone and bone tools, grinding implements, and marine shell. A California Historical Landmark plaque was placed at the site of the springs in 1954, as it is a place thought to have been visited by Portola's 1769 expedition. Ground disturbance in 1974 unearthed an additional burial of Native American origin in an intact portion of the site. The main building on the campus was determined eligible for the NRHP in 1995. A 2009 through 2012 campus-wide monitoring program uncovered historic-era deposits consisting of household refuse dating between circa 1890 and 1960, a stone-and-mortar foundation, as well as prehistoric milling implements, flaked stone tools, and marine shell. All artifacts uncovered during monitoring were found in a disturbed context. The prehistoric component of the site was evaluated in 2013 with status code 3CS, which indicates that it appears eligible for the CRHR. The University High School Main building was evaluated in 1995 with status code 2S2, which indicates that it was determined eligible for the NRHP. The Serra Springs within the site was approved as California Historical Landmark No. 522 in 1954. This large multi-component site is outside of the current Project site, approximately 0.18 miles northeast of the Arcadia Water Treatment Plant.

The second multi-component site, P-19-004669/CA-LAN-04669, consists of a large scatter of historic-era debris, a brick-lined well feature, a prehistoric isolated bifacial hand stone, as well as marine shell fragments and one abalone shell. The historic-era refuse was attributed to an Asian restaurant located on the parcel in the mid-twentieth century. This site is outside of the current Project site, approximately 0.09 miles or 500 feet southwest of the intersection of West Olympic Boulevard and South Centinela Avenue. This site has not been evaluated for NRHP/CRHR eligibility.

Historical Overview

Olympic Well Field Restoration

The first well field to provide water for City of Santa Monica was located near the San Vicente Springs, northeast of City of Santa Monica, which continued to provide water for City of Santa Monica from 1875 to the 1910s. The City of Santa Monica has extracted groundwater from the various wells in the Santa Monica Basin since 1924. In 1924, the Charnock Well Field first began providing water to the City of Santa Monica, but wells appear at various private water company sites as early as 1918, including at the Arcadia property and along Olympic Boulevard. Two wells, including the SM-3 well site, along Olympic Boulevard were installed between 1968 and 1970, according to aerial imagery. After a 10-week closure in 1980, The Santa Monica City Council approved reopening of the well. The Olympic well sites accounted for 12% of the City water supply in 1980 (ARG/HRG 2018; LAT 1980; Sanborn 1918, 1921, 1924; Santa Monica Outlook 1924; UCSB 2019).

Olympic Pipeline

The City of Santa Monica water mains were first installed along Harvard Avenue and another along Franklin Avenue, connecting Olympic Avenue wells, Charnock wells, and MWD water to the Arcadia WTP sometime between 1956 and 1968. The neighborhood it passes through however has been around since at least the 1940s. In a 1940 aerial photograph, small, single-family homes begin to appear along Wellesley Avenue, Amherst Avenue, and Centinela Avenue By the 1947 aerial photograph, single-family homes dominate the streets where the planned Olympic Pipeline will be installed, and the area near the railroad has become increasingly industrial. Multi-family homes begin to appear in the 1960s (ARG/HRG 2018; UCSB 2019).

Olympic AWTF and Arcadia WTP Expansion

The Arcadia WTP parcel, located at 1228 South Bundy Drive (APN 4263-003-270), was originally developed in 1904 and had water infrastructure, including several wells, by 1910. Nearly all original development has been demolished, leaving only later developments, the earliest of which is the 1924 5-million gallon reservoir, and a few 1958 and 1966 historic-age buildings. The site has had several modern development periods, with 4 buildings added in 1994 and 10 buildings added in 2010.

Impact Analysis

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

The Arcadia WTP located at 1228 South Bundy Drive in the City of Los Angeles, California (APN: 4263-003-270), and the Olympic Well Field well sites on Olympic Boulevard between Centinela Avenue and 26th Street were evaluated for historical significance. These were the only two resources that met the age requirements for evaluation. All other resources are less than 45 years in age and do not require evaluation at this time. The completion of the potential SM11i wellhead at Ishihara Park and the construction of the Olympic Pipeline would not result in the demolition of any built resources and were therefore not included in the historical significance evaluation. As a part of preparing the Cultural Resources Technical Report (Appendix B) for the proposed Project, a pedestrian survey, windshield survey, and records search to develop appropriate historic context and evaluate the potentially historic resources was conducted. This search was conducted in consideration of NRHP, CRHR, and City of Santa Monica Structure of Merit and Landmark designation criteria.

No historical resources were identified within the Project site as a result of the current study. However, one previously recorded historical resource was identified in close proximity to the Project site: the Santa Monica Air Line (P-19-003803), located roughly 60 feet south of the proposed SM-8 well site and 90 feet south of the proposed SM-10i well site, within the railroad right-of-way. The proposed Project would not demolish, relocate or cause any direct change to the resource which would result in a substantial adverse change as defined in CEQA guidelines §15064.5.

Olympic Well Field Restoration

No Impact. One historic age resource was identified in the Olympic Well Field Restoration area as a result of the reconnaissance-level survey: the SM-3 well site. This resource was evaluated for significance under applicable federal, state and local criteria and does not appear eligible for listing in the NRHP, CRHR, or as

a City of Santa Monica Structure of Merit or Landmark due to a lack of important historical associations, lack of architectural significance, and insufficient integrity. Nor does it appear eligible as contributors to an historic district. As such, the SM-3 well site does not appear to be historical resources for the purposes of CEQA. No historic age resources were identified in the Olympic Well Field Restoration area as a result of the reconnaissance-level survey and desktop review. Therefore, the proposed Olympic Well Field Restoration would not cause a substantial direct adverse change in the significance of a historical resource for the purposes of CEQA.

Additionally, the cultural resources assessment for Olympic Well Field Restoration site analyzed the results of the CHRIS records search, Sacred Lands File (SLF) search, California Historical Resources Information (HRI) database, and extensive archival research. The Project proposes to construct the well completion equipment for four (4) new groundwater wells (SM-8, SM-9, SM-10i, and SM-11i), and decommission one groundwater well (SM-3) in the median of Olympic Boulevard. SM-10i would be located west of the intersection of Olympic Boulevard and 26th Street, and SM-8 would be located approximately 1,400 feet east of SM-10i and west of the intersection of Olympic Boulevard and Stewart Street. These two proposed well locations are adjacent to the Santa Monica Air Line right-of-way, however, the new well sites are proposed more than 50 feet north of the Santa Monica Air Line, and will consist of a mostly subsurface structure, with low-profile equipment on the surface, just above grade. This Santa Monica Air Line is eligible under Criterion A for its significant role in the creation and development of the City of Santa Monica, and as an important commuter rail system that served to sustain a critical connection between downtown Los Angeles and Santa Monica. The proposed new well construction will be low-profile and is consistent with the overarching industrial and municipal uses of the surrounding area, including the historical industrial, railroad adjacent setting still extant along this segment of Olympic Boulevard. Therefore, the Project, as proposed, will not diminish the setting of the adjacent Santa Monica Air Line segment and will not impact the ability of the resource as a whole to convey its significance.

No other adjacent resources were identified as a result of the records search or survey that could be indirectly impacted by the proposed Project. As a result, the proposed Project will have a less than significant impact on historical resources under CEQA. No further management recommendations are required for this adjacent resource.

Olympic Pipeline

No Impact. No historic age resources were identified in the study area of the Olympic Pipeline as a result of the reconnaissance-level survey. Therefore, the proposed Olympic Pipeline would not directly cause a substantial adverse change in the significance of a historical resource for the purposes of CEQA.

Additionally, the cultural resources assessment for the Olympic Pipeline analyzed the results of the CHRIS records search, SLF search, California HRI database, and extensive archival research. No additional cultural resources were identified adjacent to the Olympic Pipeline study area, which might be indirectly affected by the Project. Further, the proposed Olympic Pipeline segment would remain entirely within the street right-of-way, would be entirely subsurface, and would have no impact to adjacent buildings and structures along the proposed alignment. Additionally, the Olympic Pipeline work proposes no modifications to existing streetscape features. As such, the proposed Project would not indirectly affect any adjacent historic-age structures.

Olympic AWTF and Arcadia WTP Expansion

No Impact. One historic age resource was identified in the Olympic AWTF and Arcadia WTP Expansion area as a result of the reconnaissance-level survey: the Arcadia WTP. This resource was evaluated for significance under applicable federal, state and local criteria and the Arcadia WTP does not appear eligible for listing in the NRHP, CRHR, or as a City of Santa Monica Structure of Merit or Landmark due to a lack of important historical associations, lack of architectural significance, and insufficient integrity. Nor does it appear eligible as a contributor to an historic district. As such, the Arcadia WTP does not appear to be historical resources for the purposes of CEQA. Therefore, the proposed Olympic AWTF and Arcadia WTP Expansion would not directly cause a substantial adverse change in the significance of a historical resource for the purposes of CEQA.

Additionally, the cultural resources assessment for the Olympic AWTF and Arcadia WTP Expansion analyzed the results of the CHRIS records search, SLF search, California HRI database, and extensive archival research. No additional cultural resources were identified adjacent to the Olympic AWTF and Arcadia WTP Expansion area, which might be indirectly affected by the Project. The proposed replacement of the equipment within the Decarbonator Building would result in the placement of new larger air stripping towers, which could be 4 to 5-feet taller than the existing RO Building height. However, this potential height increase would not result in a change in the character or use of the site, would not cast shadows on adjacent land uses, and would not result in a visual intrusion to any potential nearby historical resources. The Arcadia WTP will continue to operate but would feature new buildings that would be comparable size and scale to existing buildings on site. As such, the proposed Project would not indirectly affect any adjacent historic-age structures.

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

Olympic Well Field Restoration

Less-Than-Significant Impact With Mitigation Incorporated. The CHRIS records search and Native American Heritage Commission's (NAHC's) SLF review did not identify cultural resources within the Project's Olympic Well Field Restoration footprint. A survey for archaeological resources was not conducted as the location of the wells as they are within developed or maintained landscaped areas in the center of a heavily traveled roadway corridor. However, SCCIC records did identify one historic-era archaeological site (P-19-004666/CA-LAN-4666) approximately 250 feet southwest of the proposed location of well SM-10i's temporary staging and permanent well pad impact areas. Specifically, the site was identified on the south side of West Olympic Boulevard, on the north side of old Bergamot Station. The site measures approximately 150 feet (46 meters) northeast-southwest by 20+ feet (6 meters) northwest-southeast and the resources were encountered approximately 3 feet (1 meter) below the ground surface (bgs) during construction trenching activities monitored by Cogstone Resources Management Inc. in support of the Exposition Rail Line Segment II (Expo II) Project. Given the shallow depth when the resources for the site were encountered, it is possible that similar subsurface archaeological deposits could be encountered during ground-disturbing activities for well SM-10i and as such, archaeological sensitivity within this location is low to moderate. If such unanticipated discoveries were encountered, impacts to encountered resources could be potentially significant. However, with the implementation of a workers environmental awareness program (WEAP) training under MM-CUL-1, implementation of MM-CUL-2 for the inadvertent

discovery of archaeological resources, and archaeological monitoring under MM-CUL-3, potentially significant impacts to archaeological resources would be reduced to less-than-significant levels.

MM-CUL-1 Prior to commencement of construction activities at the Olympic Well Field, Olympic Pipeline, and Arcadia Water Treatment Plant, the City's construction contractor and construction personnel shall attend and complete a Workers Environmental Awareness Program (WEAP) training conducted by a qualified archaeologist. The WEAP training shall provide: (1) the types and characteristics of archaeological materials that may be identified during construction and explain the importance of and legal basis for the protection of significant cultural resources; (2) proper procedures to follow in the event that cultural resources or human remains are uncovered during ground-disturbing activities, including procedures for work curtailment or redirection; and (3) protocols for the contact of the site supervisor and archaeological monitor upon discovery of a resource.

MM-CUL-2 If archaeological resources (i.e., sites, features, or artifacts) are exposed during construction activities of any components of the proposed Project at the Olympic Well Field, Olympic Pipeline, and Arcadia Water Treatment Plant, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeological principal investigator, meeting the Secretary of the Interior's Professional Qualification Standards for Archaeology, can evaluate the significance of the find and determine whether or not additional study is warranted. This work exclusion buffer may be adjusted based on the recommendation of the archaeological principal investigator. Reservation in place of any unanticipated resource should be considered the preferred approach wherever possible, and the feasibility of avoidance should be discussed with the City prior to moving forward with excavation or other potentially destructive evaluation efforts. Should it be required, temporary flagging may be installed around this resource in order to avoid any disturbances from construction equipment. Depending upon the nature of the find, the archaeological monitor in correspondence with the qualified archaeological principal investigator may simply record the find to appropriate standards (thereby addressing any data potential) and allow work to continue. If the qualified archaeological principal investigator determines the discovery to be potentially significant under the California Environmental Quality Act (CEQA) or City regulations, additional efforts in conformance with requirements set forth in CEQA Section 21083.2 related to unique archeological resources shall be conducted, such avoidance of the resources, preservation in place, additional testing, and/or data, prior to allowing construction to proceed in the area of the find.

MM-CUL-3 During construction activities at the Olympic Well Field and Arcadia Water Treatment Plant that require earthwork below five feet or disturbance of native soils, periodic archaeological monitoring shall be conducted. The frequency and duration of the periodic monitoring shall be determined by a qualified archaeological principal investigator based on inspection of exposed subsurface soils and their observed potential to contain intact cultural deposits or material. The archaeological monitor shall have the authority to temporarily halt work to inspect areas as needed for potential cultural material or deposits. In the event that archaeological resources are exposed during construction activities for the proposed Project's MM-CUL-2 shall be followed. The archaeological monitor shall be responsible for maintaining daily monitoring logs during monitoring. Following the completion of

construction, an archaeological monitoring report with the results of the cultural monitoring program shall be submitted to the City for review and approval. Once approved, the final report will be filed with the South Central Coastal Information Center.

Olympic Pipeline

Less-Than-Significant Impact With Mitigation Incorporated. The CHRIS records search and NAHC's SLF review did not identify cultural resources within the Project's proposed Olympic Pipeline footprint, which is entirely developed and as such, a survey for the presence of archaeological resources was not conducted. Less than 10% of the Olympic Pipeline was previously surveyed/investigated and as such, it is unknown whether the Olympic Pipeline may yield intact subsurface archaeological deposits. If such unanticipated discoveries were encountered, impacts to encountered resources could be potentially significant. However, with the implementation of WEAP training under MM-CUL-1 and MM-CUL-2, which requires that all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for Archaeology, can evaluate the significance of the find, potentially significant impacts to archaeological resources would be reduced to less-than-significant levels. Therefore, impacts would be less than significant with MM-CUL-1 and MM-CUL-2 incorporated.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact With Mitigation Incorporated. The CHRIS records search and NAHC's SLF review did not identify cultural resources within the Project's proposed Olympic AWTF and Arcadia WTP Expansion footprint and an archaeological survey was not conducted as this portion of the Project is entirely developed and has not been previously surveyed or investigated. Although there were no archaeological resources identified within the footprint of the proposed Olympic AWTF and Arcadia WTP Expansion footprint, two archaeological sites were identified approximately 0.18 miles northeast of the AWTP, One prehistoric archaeological site, P-19-001063/CA-LAN-01063 consisting of a sparse surface scatter or prehistoric artifacts. The second archaeological resource is a large multi-component site, P-19-000382/ CA-LAN-00382, consisting of the historic-era University High School campus built on a prehistoric village site that is located around a collection of freshwater springs known as Serra Springs. Because the AWTP impact area has not been previously surveyed or investigated, there is a potential to encounter both prehistoric and historic-era archaeological deposits subsurface during Project construction. If such unanticipated discoveries were encountered, impacts to encountered resources could be potentially significant. However, with the implementation of WEAP training under MM-CUL-1, protocol for the inadvertent discovery of archaeological resources under MM-CUL-2, and archaeological monitoring under MM-CUL-3, potentially significant impacts to archaeological resources would be reduced to less-than-significant levels. Therefore, impacts would be less than significant with MM-CUL-1 through MM-CUL-3 incorporated.

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

Impacts for All Project Components

Less-Than-Significant Impact. No prehistoric or historic burials were identified within the Olympic Well Field Restoration, Olympic Pipeline, or Olympic AWTF and Arcadia WTP Expansion areas as a result of the CHRIS records search or NAHC SLF review. However, SCCIC records indicate that a previously recorded multi-

component site consisting of both prehistoric and historic-era resources (P-19-000382/CA-LAN-00382) included the identification of prehistoric burials. This site is located approximately 0.18-mile northeast of the Arcadia WTP, and the likelihood of encountering human remains subsurface within this portion of the Project site is low. In the event human remains are inadvertently encountered during construction activities, impacts would be potentially significant. The discovery of human remains would require handling in accordance with California Public Resources Code.

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found within the Project site, the county coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains can occur until the county coroner has determined, within two (2) working days of notification of the discovery, the appropriate treatment and disposition of the human remains. If the county coroner determines that the remains are, or are believed to be, Native American, he or she must notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code, Section 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant of the deceased Native American. The most likely descendant shall complete his/her inspection within 48 hours of being granted access to the site. The designated most likely descendant would then determine, in consultation with the property owner, the disposition of the human remains. In addition to compliance with regulations, the WEAP training requirements under MM-CUL-1, which requires workers to be trained in the identification of cultural resources prior to commencement of construction activities, would also apply to the discovery of human remains. Compliance with regulations would ensure that potential disturbance of any human remains, including those interred outside of dedicated cemeteries, would be less than significant.

3.6 Energy

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. Energy – Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

Existing Setting

Electricity

City of Santa Monica: Olympic Well Field Restoration and Olympic Pipeline

Before May 1, 2019, Southern California Edison (SCE) was the electricity service purchasers and provider for all residential and commercial customers in the City of Santa Monica. Since May 2019, Clean Power Alliance became the new electricity supplier for the City of Santa Monica; therefore, electrical needs for the Olympic Well Field and the portions of the Olympic Pipeline within the City of Santa Monica would be serviced by Clean Power Alliance. Clean Power Alliance is a Joint Powers Authority (JPA) made up of public agencies across Los Angeles and Ventura counties working together to bring clean, renewable power to Southern California. With the recent switch in energy supplier, Clean Power Alliance purchases clean power and SCE delivers it to customers. Electricity customers in Santa Monica are automatically defaulted to have 100% renewable energy serving their electricity needs. Alternatively, customers can opt to have their electricity power consisting of 50% renewable content or 36%, or opt out of the Clean Power Alliance to remain with SCE as their energy supplier.

City of Los Angeles: Olympic Pipeline and Olympic AWTF and Arcadia WTP Expansion

LADWP is the utility provider for the Olympic AWTF and Arcadia WTP as well as portions of the Olympic Pipeline within the City of Los Angeles. LADWP provides electric services to 1.5 million customers, located in the City and in the Owens Valley. According to LADWP, customers consumed approximately 24 billion kilowatt-hours of electricity in 2016 (CEC 2018). LADWP receives electric power from a variety of sources. According to the LADWP Briefing Book 2017–2018, 29% of LADWP's power came from renewable energy sources in 2016, including biomass/waste, geothermal, small hydroelectric, solar, and wind sources (LADWP 2017). Although California has the world's fifth-largest economy and many energy-intensive industries, the state has one of the lowest per capita energy consumption levels in the United States (EIA 2020).

Natural Gas

All Project Components

Southern California Gas Company (SoCalGas) serves the cities of Santa Monica and Los Angeles, including all of the Project component sites. SoCalGas serves 21.6 million customers in a 20,000-square-mile service area that includes over 500 communities (SoCalGas 2018). In 2016, which is the most recent year for which data is available, SoCalGas delivered 5,123 million therms of natural gas, with the majority going to residential uses. Demand for natural gas can vary depending on factors such as weather, price of electricity, the health of the economy, environmental regulations, energy-efficiency programs, and the availability of alternative renewable energy sources. Natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the state in response to market supply and demand.

Petroleum

All Project Components

Overall, the transportation sector accounts for two-fifths of California's end-use energy consumption (EIA 2020). According to the EIA, California used approximately 683 million barrels of petroleum in 2017 (EIA 2019). This

equates to a daily use of approximately 1.9 million barrels of petroleum. There are 42 U.S. gallons in a barrel, so California consumes approximately 78.6 million gallons of petroleum per day, adding up to an annual consumption of 29 billion gallons of petroleum. However, technological advances, market trends, consumer behavior, and government policies could result in significant changes in fuel consumption by type and in total. At the federal and state levels, various policies, rules, and regulations have been enacted to improve vehicle fuel efficiency, promote the development and use of alternative fuels, reduce transportation-source air pollutants and GHG emissions, and reduce vehicle miles traveled (VMT).

Impact Analysis

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

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. For this analysis of energy use, all components of the Projects are assessed together. The estimated consumption for electricity, natural gas, and petroleum is discussed below.

Electricity. Temporary electric power for as-necessary lighting and electronic equipment would be provided by Clean Power Alliance or LADWP depending on the Project component. The amount of electricity used during construction would be minimal because typical demand would stem from electrically powered hand tools. The electricity used for construction activities would be temporary and minimal; therefore, Project construction would not result in wasteful, inefficient, or unnecessary consumption of electricity.

Natural Gas. Natural gas is not anticipated to be required during construction of the Project. Fuels used for construction would primarily consist of diesel and gasoline, which are discussed under the subsection "Petroleum." Any minor amounts of natural gas that may be consumed as a result of Project construction would be temporary and negligible and would not have an adverse effect; therefore, Project construction would not result in wasteful, inefficient, or unnecessary consumption of natural gas.

Petroleum. Heavy-duty construction equipment associated with construction activities for construction would rely on diesel fuel, as would vendor trucks involved in delivery of materials to the Project site. Construction workers would travel to and from the Project site throughout the duration of construction. It is assumed in this analysis that construction workers would travel in gasoline-powered light-duty vehicles.

Heavy-duty construction equipment of various types would be used during most phases of Project construction. Appendix A lists the assumed equipment usage for each phase of construction. The Project's construction equipment is estimated to operate a total combined 17,179 hours.

Fuel consumption from construction equipment was estimated by converting the total carbon dioxide (CO_2) emissions from each construction phase to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. Construction is estimated to occur intermittently from 2020 to 2023 based on the construction phasing schedule.

The conversion factor for gasoline is 8.78 kilograms per metric ton (MT) CO_2 per gallon, and the conversion factor for diesel is 10.21 kilograms per MT CO_2 per gallon (The Climate Registry 2019). The estimated diesel fuel usage from construction equipment is shown in Table 3.6-1.

Table 3.6-1. Construction Equipment Diesel Demand

Project Component	Pieces of Equipment	Equipment CO_2 (MT)	kg CO_2/Gallon	Gallons
Olympic Well Field - Well SM-10i	5	7.08	10.21	693.16
Olympic Well Field - Well SM-8	5	7.08	10.21	693.16
Olympic Well Field - Well SM-9	5	7.08	10.21	693.16
Olympic Well Field - Well SM-11i	5	7.08	10.21	693.75
Recycled Water Pipeline	10	9.30	10.21	910.40
Olympic Pipeline	10	54.92	10.21	5,379.01
Olympic AWTF and Arcadia WTP Expansion	32	298.48	10.21	29,233.90
			Total	**38,296.55**

Sources: Pieces of equipment and equipment CO_2 (Appendix A); kg CO_2/Gallon (The Climate Registry 2019).
Notes: CO_2 = carbon dioxide; MT = metric ton; kg = kilogram.

Fuel estimates for total worker, vendor, and haul truck fuel consumption are provided in Table 3.6-2.

Table 3.6-2. Construction Worker, Vendor, and Haul Truck Petroleum Demand

Project Component	Trips	Vehicle MT CO_2	kg CO_2/ Gallon	Gallons
Worker Vehicles (Gasoline)				
Olympic Well Field - Well SM-10i	440	2.21	8.78	252.23
Olympic Well Field - Well SM-8	440	2.21	8.78	252.23
Olympic Well Field - Well SM-9	440	2.21	8.78	252.23
Olympic Well Field - Well SM-11i	440	2.02	8.78	230.32
Recycled Water Pipeline	302	1.32	8.78	149.77
Olympic Pipeline	1,674	8.28	8.78	942.74
Olympic AWTF and Arcadia WTP Expansion	10,272	48.97	8.78	5,577.43
			Total	**7,656.96**
Vendor Trucks (Diesel)				
Olympic Well Field - Well SM-10i	140	1.73	10.21	169.84
Olympic Well Field - Well SM-8	140	1.73	10.21	169.84
Olympic Well Field - Well SM-9	140	1.73	10.21	169.84
Olympic Well Field - Well SM-11i	140	1.66	10.21	162.27
Recycled Water Pipeline	176	2.08	10.21	204.01
Olympic Pipeline	1,024	12.62	10.21	1,236.12
Olympic AWTF and Arcadia WTP Expansion	1,474	18.00	10.21	1,762.91
			Total	**3,874.84**
Haul Trucks (Diesel)				
Olympic Well Field - Well SM-10i	36	1.39	10.21	135.89
Olympic Well Field - Well SM-8	36	1.39	10.21	135.89
Olympic Well Field - Well SM-9	56	2.16	10.21	211.38
Olympic Well Field - Well SM-11i	36	1.30	10.21	127.27
Recycled Water Pipeline	140	4.05	10.21	568.06
Olympic Pipeline	510	19.44	10.21	1,903.88

Table 3.6-2. Construction Worker, Vendor, and Haul Truck Petroleum Demand

Project Component	Trips	Vehicle MT CO_2	kg CO_2/ Gallon	Gallons
Olympic AWTF and Arcadia WTP Expansion	154	5.80	10.21	568.06
			Total	3,479.32

Sources: Trips and vehicle CO_2 (Appendix A); kg CO_2/Gallon (The Climate Registry 2019).
Notes: MT = metric ton; CO_2 = carbon dioxide; kg = kilogram.

In summary, construction of the Project is conservatively anticipated to consume 7,657gallons of gasoline and 45,651gallons of diesel. By comparison, Countywide total petroleum use by vehicles is expected to be 4.7 billion gallons per year by 2020 (CARB 2019c). Based on these assumptions, approximately 69 billion gallons of petroleum would be consumed in California over the course of the Project's construction phase based on the California daily petroleum consumption estimate of approximately 78.6 mgd (EIA 2019). This would be a fraction of petroleum that would be consumed in California and Countywide over the course of the construction period. Therefore, impacts to energy resources during construction would be less than significant.

Long-Term Operational Impacts for All Project Components

Less-Than-Significant Impact. For this analysis of energy uses, all components of the Project are assessed together. The estimated consumption for electricity, natural gas, and petroleum is discussed below.

Electricity. The operational phase of the Project would require electricity for multiple purposes including building heating and cooling, lighting, water treatment processes, and for water and wastewater conveyance. The estimation of operational building energy was based on the CalEEMod estimated annual electricity consumption estimate. Supply, conveyance, treatment, and distribution of water for the Project would also require the use of electricity. Similarly, wastewater generated by the Project requires the use of electricity for conveyance and treatment. Water consumption estimates for the Project and associated electricity consumption from water use and wastewater generation were estimated using CalEEMod default values and the square footage of the new buildings. In addition, the City estimates that the Project would result in a net increase in electricity from the wells of 1,621,000 kilowatt-hours (kWh) per year and a net increase in electricity from the Arcadia WTP of 3,355,000 kWh per year.

Because the Project would increase the supply of local groundwater in replacement of imported water, there would be a reduction in electricity associated with imported water source. For imported water, electricity is needed to supply and transport the water from sources in other parts of California, as well as treat and distribute the water; however, for local groundwater, electricity is only needed for pumping, treatment, and local distribution. Accordingly, electricity associated with supply of water is avoided as a result of replacing the imported water source with local groundwater. As previously explained, the existing capacity of the Arcadia WTP is 10 mgd, with an existing production of 8.9 mgd. The Project would increase capacity of the Arcadia WTP to 13 mgd, with an estimated future production of 12 mgd. It is conservatively assumed that the Project would result in a net increase in 2 mgd at a minimum (12 mgd future production - 10 mgd existing capacity). Accordingly, implementation of the Project would avoid electricity associated with supply of 2 mgd of water. Table 3.6-3 presents the electricity demand for the Project.

Table 3.6-3. Project Operations – Electricity Demand

Project Facility	kWh/year
Project Buildings	116,550
Water/Wastewater	35,968
Wells and Treatment Plant Net Increase	4,976,000
Subtotal	5,128,518
Avoided Electricity	7,100,710
Total (Net)	**(1,972,192)**

Source: Appendix A.
Notes: kWh = kilowatt-hour.
Numbers noted in parenthesis represent a negative number.

As shown in Table 3.6-3, when considering avoided electricity associated with replacing imported water with local groundwater, there is a net reduction in electricity demand for the City's water supply. For disclosure, for Los Angeles County, electricity demand in 2018 was 67,856 million kWh (CEC 2018a). Impacts related to operational electricity use would be less than significant.

Natural Gas. Natural gas consumption during operation would be required for various purposes, including building heating and cooling. For building consumption, default natural gas generation rates in CalEEMod for the Project land uses and climate zone were used. Table 3.6-4 presents the estimated natural gas demand for the Project.

Table 3.6-4. Project Operations – Natural Gas Demand

Project Facility	kBtu/year
Project Buildings	190,050

Source: Appendix A.
Notes: kBtu = thousand British thermal units.

As shown in Table 3.6-4, the Project would consume approximately 190,050 thousand British thermal units (kBtu) per year. For disclosure, in 2018, SoCalGas delivered approximately 2,921 million therms (292.1 billion kBtu) to Los Angeles County (CEC 2018b). The Project is subject to statewide mandatory energy requirements as outlined in Title 24, Part 6, of the California Code of Regulations. Title 24, Part 11, contains additional energy measures that are applicable to Project under the California Green Building Standards Code (CALGreen). This would apply to the new R.O. Building (see Figure 6, ID#1) and the new Electric Room (see Figure 6, ID#4). Overall, due to the inherent increase in efficiency of building code regulations, the Project would not result in a wasteful use of energy. Impacts related to operational natural gas use would be less than significant.

Petroleum. The fuel consumption resulting from the Project's operational phase would be attributable to minimal delivery truck trips delivering chemical supplies to the Arcadia WTP site. Similar to construction worker and truck trips, fuel consumption for operation was estimated by converting the total CO_2 emissions from the vendor truck trips to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. Based on the assumed vehicle mix (50% medium heavy-heavy duty trucks and 50% heavy-heavy duty trucks) and the countywide proportion of gasoline and diesel on-road VMT, the vehicles associated with

Project operations were assumed to be approximately 7% gasoline powered and 93% diesel powered. The estimated fuel use from Project operational mobile sources is shown in Table 3.6-5.

Table 3.6-5. Project Operations – Petroleum Consumption

Fuel	Vehicle MT CO_2	kg CO_2/Gallon	Gallons
Gasoline	1.03	8.78	117.85
Diesel	14.23	10.21	1,393.27
		Total	**1.511.12**

Source: Appendix A.
Notes: CO_2 = carbon dioxide; kg = kilogram; MT = metric ton.

As depicted in Table 3.6-5, mobile sources from the Project would result in approximately 1,511 gallons of petroleum fuel usage per year. For context only, California as a whole consumes approximately 28.7 billion gallons of petroleum per year (EIA 2019). Over the lifetime of the Project, the fuel efficiency of the vehicles being used by the vendor trucks is expected to increase. As such, the amount of petroleum consumed as a result of vehicular trips to and from the Project site during operation would decrease over time due to advances in fuel economy.

In summary, although the Project would increase petroleum use during operation as a result of minimal delivery trucks traveling to and from the Arcadia WTP site, the use would be a small fraction of the statewide use and, due to efficiency increases, would diminish over time. Given these considerations, petroleum consumption associated with the Project would not be considered inefficient or wasteful and would result in a less than significant impact.3.6 b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Impacts for All Project Components

Less-Than-Significant Impact. For this analysis of energy impacts, all components of the Project are assessed together.

Part 6 of Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California's building standards. Part 6 establishes energy efficiency standards for residential and non-residential buildings constructed in California to reduce energy demand and consumption. Part 6 is updated periodically (every 3 years) to incorporate and consider new energy efficiency technologies and methodologies. Title 24 also includes Part 11, CALGreen. CALGreen institutes mandatory minimum environmental performance standards for all ground-up, new construction of commercial and state-owned buildings. The Project would meet Title 24 and CALGreen standards to reduce energy demand and increase energy efficiency.

As discussed in Section 3.8, GHG emissions, the Project would not conflict with the various City of Santa Monica plans that would reduce energy use, including the City of Santa Monica Climate Action and Adaptation Plan and the Sustainable City Plan. In addition, the Project would result in a net reduction in electricity use when considering the avoided electricity associated with importing water, as shown in Table 3.6-3.

Overall, the Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency; therefore, impacts during construction and operation of the Project would be less than significant.

3.7 Geology and Soils

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

Existing Setting

Olympic Well Field Restoration

The Olympic Well Field is located in a seismically active region, as several prominent and well-known faults are located in the greater Los Angeles area. The closest fault to the proposed Olympic Well Field is the Holocene-active[11] Santa Monica Fault Zone, located approximately 0.6-mile to the northwest (CGS 2018a). Seismic hazards associated with this fault, as well as other faults within the region, include strong ground shaking, surface rupture, seismically induced landslides, and liquefaction. According to the California Geological Survey (CGS) *Earthquake Zones of Required Investigation, Beverly Hills Quadrangle*, the Olympic Well Field would not be located within an area susceptible to earthquake-induced landslides and would not be located within an Earthquake Fault Zone (i.e., not within a zone susceptible to surface ruptures). However, proposed Well SM-9 would be located within a liquefaction zone (CGS 2018a). Figure 14, Existing Geological Conditions, shows the relevant liquefaction and fault zones near the Project site.

Non-seismic hazards that could potentially affect the Project site include subsidence and expansive soils. Subsidence is the permanent collapse of the pore space within a soil or rock and downward settling of the surface of the earth relative to its surrounding area. This phenomenon can result from the extraction of water or oil, peat loss, liquefaction, or the addition of water to the land surface—a condition called "hydrocompaction". According to the United States Geological Survey (USGS) *Areas of Land Subsidence in California*, no instances of subsidence have been recorded within the Project area (USGS 2019).

Geologic units underlying the proposed Olympic Well Field consist of alluvium, comprised of unconsolidated and generally uneroded, alluvial gravel, sand, and silt-clay (Dibblee 1991). Expansive soils are the seasonal swelling of soils containing clay minerals. Repeated shrinking and swelling can result in structural damage, particularly if wetting and drying does not occur uniformly throughout the soil. As the Project is underlain by soils that contain clay minerals, there is a potential for on-site soil expansion.

Olympic Pipeline

Similar to the Olympic Well Field, the proposed Olympic Pipeline alignment is located in a seismically active region. According to the CGS *Earthquake Zones of Required Investigation, Beverly Hills Quadrangle*, the Olympic Pipeline alignment would not be located within an area susceptible to earthquake-induced landslides. However, a segment of the alignment, from Saltair Avenue to Berkeley Street, would be located within an Earthquake Fault Zone associated with the Santa Monica Fault. In addition, the portion of the pipeline alignment from Saltair Avenue to Centinela Avenue would be located within a liquefaction zone (CGS 2018a).

Geologic units underlying the pipeline alignment consist of alluvium and older alluvium. The alluvium is comprised of unconsolidated and generally uneroded, alluvial gravel, sand, and silt-clay. The older alluvium is comprised of unconsolidated to weakly consolidated (eroded where elevated) pebble-gravel, sand, silt, and clay (Dibblee 1991). No known instances of subsidence have been recorded in the Olympic Pipeline area (USGS 2019). In addition, as the Project is underlain by soils that contain clay minerals, there is a potential for on-site soil expansion.

[11] Holocene-active faults: faults that have moved during the past approximately 11,700 years (i.e., Holocene time). These faults exhibit signs of geologically recent movement, are most likely to experience movement in the near future, and are capable of surface rupture. These faults are also considered "active faults."

Olympic AWTF and Arcadia WTP Expansion

Similar to both the Olympic Well Field Restoration and Olympic Pipeline sites, the Olympic AWTF and Arcadia WTP are located within a seismically active region. According to the CGS *Earthquake Zones of Required Investigation, Beverly Hills Quadrangle*, the Olympic AWTF and Arcadia WTP Expansion components of the Project are not located within an area susceptible to earthquake-induced landslides. However, these components of the Project would be located within an Earthquake Fault Zone associated with the Santa Monica Fault. In addition, the southwest corner of the Arcadia WTP is located within a liquefaction zone (CGS 2018a).

Geologic units underlying the Olympic AWTF and Arcadia WTP consist of alluvium, comprised of unconsolidated and generally uneroded, alluvial gravel, sand, and silt-clay (Dibblee 1991). No known instances of subsidence have been recorded within this portion of the Project (USGS 2019). In addition, as these facilities are underlain by soils that contain clay minerals, there is a potential for on-site soil expansion.

Impact Analysis

3.7 a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

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

Olympic Well Field Restoration

Less-Than-Significant Impact. Surface fault rupture occurs when seismically induced fault movement breaks through the ground surface. Surface fault rupture may also accompany fault creep or natural or man-induced subsidence. As shown in Figure 14, the Olympic Well Field Restoration component of the Project is not located within a zone susceptible to surface rupture. The closest Earthquake Fault Zone is located approximately 0.6-mile to the northwest, at the closest point, associated with the Santa Monica Fault. Given that no known active faults underlie the Project site, the potential for on-site surface rupture is low. The wellhead completion activities would not exacerbate existing hazards because the Project does not involve subterranean activities that could exacerbate risks of fault rupture, such as high-pressure fracking-related deep wastewater disposal, steam injection, or other water flooding operations into subsurface layers. The proposed two new groundwater injections wells and two new productions wells would be operated in a manner that maintains the sustainable yield of the groundwater table, such that production and injection quantities would be balanced. The new wells include meters at the wellheads to track the quantity of water being injected and extracted. This meter data informs the groundwater model estimates to facilitate a balance between groundwater injection and groundwater pumping.

Additionally, the proposed Project would not bring people or habitable structures into areas potentially susceptible to substantial adverse effects related to fault rupture. Therefore, the Olympic Well Field component of the Project would not directly or indirectly cause potential adverse effects involving the rupture of a known earthquake fault.

Olympic Pipeline

Less-Than-Significant Impact. Surface fault rupture occurs when seismically induced fault movement breaks through the ground surface. Surface fault rupture may also accompany fault creep or natural or man-induced subsidence. A portion of the Olympic Pipeline alignment, generally from Saltair Avenue to Berkeley Street, is located within an Alquist-Priolo Fault Zone associated with the Holocene-active, Santa Monica Fault.

The Alquist-Priolo Earthquake Fault Zoning Act is a state law that regulates development projects near active faults to mitigate the hazard of surface fault rupture. Surface fault rupture poses a hazard to structures because the damage can result in the structural collapse of a building, potentially resulting in injuries or loss of life, or may render a building uninhabitable and require costly repairs (CGS 2018b). The Alquist-Priolo Fault Zone Act prohibits structures for human occupancy (i.e. habitable structures) to be constructed across Holocene-active faults (PRC Section 2621-2630). The Seismic Hazards Mapping Act defined human occupancy as a structure used or intended to support a "human occupancy rate of more than 2,000 person-hours per year." The proposed Olympic Pipeline would not meet the definition for structures providing human occupancy under the Seismic Hazards Mapping Act and thus no additional studies or protective measures (such as a buffer) would be necessary for construction of the Olympic Pipeline. As the pipeline does not involve the construction of structures for human occupancy across the traces of an active fault, the Project would not conflict with the Alquist-Priolo Earthquake Fault Zoning Act. Furthermore, trenching for pipeline construction are commonplace short-term activities and the long-term operation of pipelines beneath roadways occur in fault zones throughout California; such activities would not substantially affect the potential for the rupture of a fault. Therefore, the Olympic Pipeline component of the Project would not directly or indirectly cause potential adverse effects involving the rupture of a known earthquake fault and impacts would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. As shown in Figure 14, the Olympic AWTF and Arcadia WTP Expansion components of the Project are located within an Alquist-Priolo Fault Zone associated with the Santa Monica Fault. The Alquist-Priolo Fault Zone Act requires that new habitable structures constructed across Holocene-active faults (PRC Section 2621-2630) establish buffers and/or other protective measures around the trace of the fault. However, no proposed structures for human occupancy would be constructed within the Arcadia WTP as part of the Project.

Furthermore, the City implements General Plan Safety Element Policy 1.3, which requires geotechnical investigations in areas of potential seismic or geologic hazards, through the City Guidelines for Geotechnical Reports (City of Santa Monica 2010b). The guidelines establish standards for data and analysis that must be included in the geotechnical investigations, peer review of the data, and demonstration of compliance with applicable California Building Code (CBC) regulations and standards for review, set forth by the California Geological Survey Special Publication 117 – Guidelines for Evaluating and Mitigating Seismic Hazards in California.

Prior to development, a standard, final design-level geotechnical investigation of the Project site would be completed, including an evaluation of potential regional and localized geologic hazards, including faulting. Based on the local geologic conditions, this report would provide geotechnical recommendations to mitigate the potential for structural damage as a result of surface fault rupture. Typical geotechnical recommendations would include over-excavation of incompetent materials, compaction of backfilled soils,

and foundation specifications designed to resist seismic hazards. In addition, proposed facilities at the Olympic AWTF and Arcadia WTP would be constructed in accordance with provisions of the 2019 CBC, which has been codified in the California Code of Regulations (CCR) as Title 24, Part 2, and is based on the 2018 International Building Code. The CBC pertains to the construction of all buildings, utilities, etc. The purpose of the CBC is to "establish minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during operations" (CCR, Title 24, Volume 1). Chapter 16, Structural Design, of the CBC include seismic design requirements. The CBC requires that every structure, including non-structural components that are attached to structures, must have structural design information related to seismic loads and be designed and constructed to resist the effects of earthquake motions (CCR, Title 24, Volume 2, Chapter 16).

While infrastructure damage may be unavoidable as a result of surface fault rupture, all facilities would be constructed in compliance with recommendations of the final design-level geotechnical investigation and applicable building code requirements. Additionally, the Project construction and operation would not increase or exacerbate the potential for fault rupture to occur because the Project does not involve subterranean activities that could exacerbate risks of fault rupture, such as high-pressure fracking-related deep wastewater disposal, steam injection, or other water flooding operations into subsurface layers. Therefore, the Olympic AWTF and Arcadia WTP components of the Project would not directly or indirectly cause potential adverse effects involving the rupture of a known earthquake fault and impacts would be less than significant.

3.7 a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

ii) Strong seismic ground shaking?

Impacts for All Project Components

Less-Than-Significant Impact. The Project components are all located within a seismically active region that is known for its many active faults and historic seismicity. Seismically induced ground shaking could potentially damage the proposed Project components, including the wells, proposed Olympic Pipeline, and water treatment infrastructure. Proposed facilities would be constructed in accordance with applicable provisions of the Santa Monica Building Code and/or the CBC, thus minimizing the potential for damage. The degree of ground shaking that is felt at a given site depends on the distance from the earthquake source (epicenter), the magnitude of the earthquake, the type of subsurface material on which the site is situated, and topography. While infrastructure damage may be unavoidable as a result of seismically induced ground movement, Project construction and operation would not increase or exacerbate existing environmental conditions, as discussed under the discussion for3.7(a)(i) above. Therefore, the Project would not directly or indirectly cause potential adverse effects involving seismically induced ground shaking and impacts would be less than significant.

3.7 a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

iii) Seismic-related ground failure, including liquefaction?

Impacts for All Project Components

Less-Than-Significant Impact. Seismic-related ground failure can include hazards such as liquefaction, earthquake-induced landslides, and seismically induced settlement. (Landslides are addressed below in 3.7(a)(iv)). As previously discussed and as shown in Figure 14, according to the CGS Earthquake Zones of Required Investigation, Beverly Hills Quadrangle, Well SM-9 and SM-11i, a portion of the proposed recycled water pipeline, a portion of the pipeline alignment from Saltair Avenue to Centinela Avenue, and the southwest corner of the Arcadia WTP is located within a liquefaction zone. While the portions of the Project site could be subject to seismic-related ground failure, including liquefaction, the Project would not increase or exacerbate the potential for seismic-related ground failure to occur. Liquefaction could be induced by groundwater recharge activities, as this process results in shallower groundwater, which in turn could result in liquefaction-induced ground failure, including lateral spreading. However, the proposed Project would construct two injection wells to ensure the groundwater is maintained at sustainable levels. Therefore, the proposed Project would not directly or indirectly cause potential adverse effects involving seismically induced ground failure and impacts would be less than significant.

3.7 a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

iv) Landslides?

Impacts for All Project Components

No Impact. The Olympic Well Field and Olympic Pipeline is characterized by gentle, southwest sloping, paved terrain that would not be susceptible to landslides (USGS 2015). The Olympic AWTF and Arcadia WTP components of the Project are characterized by relatively flat, even terrain that would not be susceptible to landslides (USGS 2015). In addition, the Project site is not located within an area of potential seismically induced landslides, as designated by CGS (2018a). The nearest landslide area is located approximately 0.3-mile to the southwest of the Olympic Well Field and approximately 0.5-mile to the northwest of the Olympic Pipeline and existing Arcadia WTP (CGS 2018a). Therefore, the proposed Project would not directly or indirectly cause potential adverse effects involving landslides and no impact would occur.

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

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed Olympic Well Field component of the Project would be located within the Olympic Boulevard median. Demolition activities would include abandonment of Well SM-3, and removal of 285 to 450 cubic yards of soil from the well sites in order to accommodate the proposed concrete slabs. Abandonment of Well SM-3 would include removal of a concrete vault cover associated with the well (Figure 2B). Construction activities would include creation of temporary staging areas within the landscaped medians, construct the well completion and pumping equipment, and construction of a new pipelines to connect the proposed wells to existing lines (described further in Section 2.5.1, Olympic

Pipeline Restoration). Pump and pipe installation would require excavation, trenching, and temporary stockpiling of soils pending trench backfill or off-site disposal. Permanent paved well pads would be constructed around the new wells (Figures 2A, 2B, 2C, and 2D).

Each of these activities would expose soils that could be susceptible to erosion as a result of rain, windy conditions, and/or construction vehicles traveling over the exposed soils. However, because the proposed Project in its entirety (i.e., the proposed wells, pipeline, and Arcadia WTP) would disturb more than 1.0 acre of soil, the City of Santa Monica through its construction contractor would be required to implement a SWPPP, in compliance with the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with the Construction and Land Disturbance Activities (Order No 2009-009-DWQ, as amended by 2010-0014-DWQ and 2012-0006-DWQ, NPDES No. CAS000002) (also known as the Construction General Permit) or the latest approved general permit requirements for stormwater discharge at construction sites. SWPPPs are required to include erosion control measures, such as covering exposed soil stockpiles, lining the perimeter of construction areas with sediment barriers, and protecting storm drain inlets. These measures would control and reduce erosion and loss of topsoil during demolition and construction to a less than significant level. Paving of well pads would prevent long term erosion surrounding the new wells. Upon completion of construction, the areas of the proposed wellhead completions would be restored to their existing condition. Therefore, impacts associated with erosion would be less than significant.

Olympic Pipeline

Less-Than-Significant Impact. The Olympic Pipeline would be constructed entirely within publicly-owned right-of-way (Arizona Avenue, Berkeley Avenue, and Texas Avenue) within the cities of Santa Monica and Los Angeles. Trenching within the public right-of-way would require approximately 4.5-foot-wide open trenching through the length of the streets, with the possibility of horizontal directional drilling or jack and bore construction, which would allow for subterranean pipeline construction. Excavated soils would be temporarily stockpiled pending backfill and/or off-site disposal. After placement of the pipeline, at least half of the trench would require imported sand bedding surrounding the pipeline and sand-cement slurry may be used in areas of shallow overcrossings for backfill. Otherwise, the excavated soils would be used to the extent feasible as backfill.

Construction activities including open trenching, horizontal directional drilling, and jack and bore construction would produce exposed soils that could be susceptible to erosion as a result of rain, windy conditions, and/or construction vehicles traveling over the exposed soils. Similar to the Olympic Well Field Restoration component of the Project, the City of Santa Monica through its construction contractor would be required to implement a SWPPP, in compliance with the Construction General Permit. The SWPPP would include erosion control measures, such as covering exposed soil stockpiles, lining the perimeter of construction areas with sediment barriers, and protecting storm drain inlets. These measures would control and reduce erosion and loss of topsoil to a less than significant level. Once construction is complete, with the exception of minor appurtenant features, the pipeline would either be located underground or would be paved over, and additional operational impacts related to soil erosion or loss of topsoil would not occur. Therefore, impacts related to soil erosion or the loss of topsoil would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The Arcadia WTP is located in an urban and well-developed area of Los Angeles. As illustrated in Figure 5, numerous buildings and a concrete driveway would be demolished as part of the Project. In addition, grassy areas and eight trees would be removed during demolition activities. As illustrated in Figure 6, new construction for the Olympic AWTF would include pretreatment filtration equipment, UV/H202 AOP equipment, and a GAC system. And as illustrated in Figure 7, new construction associated with the Arcadia WTP Expansion would include CCRO equipment and upgraded/expanded ancillary facilities (e.g., pumps, blowers, cartridge filters, etc.). Temporary staging areas would be created in two existing grassy areas.

Similar to the Olympic Well Field Restoration and Olympic Pipeline components of the Project, the City of Santa Monica through its construction contractor would be required to implement a SWPPP, in compliance with the Construction General Permit. SWPPPs are required to include erosion control measures, such as covering exposed soil stockpiles, lining the perimeter of construction areas with sediment barriers, and protecting storm drain inlets. These measures would control and reduce erosion and loss of topsoil to a less than significant level during demolition and construction. Once construction is complete, the temporary staging areas would return to existing conditions. Additionally, the City would ensure the existing Arcadia WTP is compliant with SMMC Chapter 7.10, which specifies best management practices (BMPs) and other measures to reduce polluted runoff, such as erosion. Therefore, impacts associated with erosion on- or off-site would be less than significant.

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

Impacts for All Project Components

Less-Than-Significant Impact. As previously discussed, the Olympic Well Field, Olympic Pipeline, and existing Arcadia WTP are not located in an area susceptible to landslides or with documented ground subsidence. It is unclear whether collapsible soils are present. While Well SM-9 and the southwest corner of the Arcadia WTP are located within a zone of liquefaction, the Project would not increase or exacerbate the potential for seismic-related ground failure to occur because the Project does not involve activities that could cause ground failure or subsidence. The proposed two new groundwater injections wells and two new productions wells would be operated in a manner that maintains the sustainable yield of the groundwater table, such that production and injection quantities would be balanced. The new wells include meters at the wellheads to track the quantity of water being injected and extracted. This meter data informs the groundwater model estimates to facilitate a balance between groundwater injection and groundwater pumping.

As with all development within the City, the Arcadia WTP is required to comply with the Santa Monica Building Code (SMMC Chapters 8.18 and 8.48 through 8.80). The Olympic Pipeline and wells are not habitable structures and would not be subject to the Santa Monica Building Code. Measures to minimize the risk of soil settlement, subsidence, and soil collapse associated with temporary excavations are included in the Santa Monica Building Code, with specific provisions for seismic design as it relates to seismically induced settlement. Additionally, as required by the City's plan check process, prior to the issuance of a building permit for the proposed Project, a site-specific final geotechnical report would be prepared for review and approval by the City's Building and Safety Division. The proposed Project would be

required to meet the most recent building safety criteria and construction design recommendations of the site-specific final geotechnical reports that would be prepared for the construction of Project buildings. Construction and operation of the proposed Project would not cause local geologic units or soils to become unstable and would not result in on- or off-site landslides, lateral spreading, subsidence, liquefaction or collapse. As such, impacts would be less than significant.

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

Impacts for All Project Components

Less-Than-Significant Impact. Expansive soils are clay-based soils that increase in volume when wet and shrink when dry. As previously discussed, the Project components are underlain by alluvial sediments consisting of gravel, sand, and silt-clay, as well as older alluvium sediments consisting of pebble-gravel, sand, silt, and clay. As such, soils underlying the Project may contain expansive clay. These soils could potentially damage the proposed pipeline connections as part of the Olympic Well Field Restoration and the Olympic Pipeline, particularly if wetting and drying does not occur uniformly throughout the soil. However, after trenching and placement of the pipelines, at least half of the trench would require imported sand bedding surrounding the pipeline and sand-cement slurry may be used in areas of shallow overcrossings for backfill. This standard pipeline construction technique of surrounding the pipe with non-expansive sand and/or sand-cement slurry would minimize the potential for expansive soils to damage the connection pipeline. As a result, construction and operation of the Olympic Well Field Restoration and Olympic Pipeline component of the Project would not create substantial direct or indirect risks to life or property in association with potentially expansive soils.

The Olympic AWTF and Arcadia WTP site is a fully graded and developed property that has been previously constructed in accordance with applicable building code standards. Further, the proposed facilities associated with the Olympic AWTF and Arcadia WTP component would be constructed in accordance with recommendations in a Project-specific, geotechnical investigation using a previous geotechnical investigation conducted in 2010 as the baseline. The geotechnical baseline report would be submitted to the City for review and stamped by the geotechnical engineer licensed by the State of California upon approval. Additionally the Project would comply with provisions of the CBC, thus minimizing the potential for damage to structures on the site related to expansive soils. Therefore, the proposed Project would not create substantial direct or indirect risks to life or property in association with potentially expansive soils, and impacts would be less than significant.

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

Impacts for All Project Components

No Impact. No septic tanks or alternative wastewater disposal systems are proposed. Therefore, no impact associated with the use of such systems would occur.

3.7 f) Would the project directly or indirectly destroy a unique paleontological resource or unique geologic feature?

Impacts for All Project Components

Less-Than-Significant Impact With Mitigation Incorporated. According to the Natural History Museum of Los Angeles County (LACM) paleontological records search results (Appendix C), which were received on February 5, 2020, and surficial geological mapping by Dibblee (1991) at a 1:24,000 scale, the proposed Project is underlain by Holocene (~< 11,700 years ago) alluvium (map unit Qa) with Pleistocene (~2.58 million to 11,700 years ago) marine deposits (Qom) mapped just to the south. While the Holocene alluvium has low paleontological sensitivity on the surface due to its young age, older, Pleistocene age deposits with high paleontological sensitivity underlie the Holocene alluvium at a relatively shallow depth in this area. The LACM reported two Pleistocene localities near the Project site. The closest locality (LACM 5462), which is located along Pennsylvania Avenue, north of the Olympic Boulevard, yielded a fossil specimen of extinct lion (*Felis atrox*) from a shallow depth of six feet bgs. The next closest vertebrate fossil locality (LACM 7879), located near the intersection of Rose Avenue and Penmar Avenue, approximately 1.6 miles south of SM-11i, yielded fossil specimens of horse (*Equus*) and ground sloth (*Paramylodon*) from a depth greater than 11 feet bgs (Appendix C).

Due to the presence of paleontologically sensitive sediments below the relatively thin veneer of Holocene alluvium, the LACM recommended paleontological monitoring of any excavations of below a depth of five feet bgs in undisturbed native sediments (Appendix C), and thus, impacts are potentially significant. The maximum depth of excavation for the Olympic Well Field Component would not be greater than 5-feet; thus, impacts are potentially significant for the Olympic Pipeline, and Olympic AWTF and Arcadia WTP components of the Project.

MM-GEO-1 Prior to commencement of any grading activity below a depth of five feet at the proposed recycled water pipeline for the Olympic Well Field Restoration, Olympic Pipeline, and Arcadia Water Treatment Plant, the City of Santa Monica shall retain a qualified paleontologist in accordance with the guidelines of the Society of Vertebrate Paleontology (SVP 2010). The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the proposed Project. The PRIMP shall be consistent with the SVP (2010) guidelines and shall outline requirements for preconstruction meeting attendance and worker environmental awareness training, adequate spot-check monitoring within the proposed Project site based on construction plans and/or geotechnical reports, procedures for adequate paleontological spot-check monitoring and discoveries treatment, paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management. The PRIMP shall include protocols for spot-checking significant ground-disturbing activities below a depth of five feet below the ground surface or five feet below the depth of artificial fill in areas mapped as Holocene alluvium. At a minimum, the PRIMP shall require that if paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery shall be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor shall remove the rope and allow grading to recommence in the area of the find. Upon completion of the paleontological monitoring program, the qualified paleontologist shall prepare a final monitoring report documenting the results of the mitigation program. This report shall include discussions of the methods used, stratigraphic section(s) exposed, fossils collected, and significance of recovered fossils.

Incorporation of MM-GEO-1 would reduce construction related impacts to paleontological resources to a less-than-significant level.

3.8 Greenhouse Gas Emissions

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Existing Setting

All Project Components

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system, and many factors (natural and human) can cause changes in Earth's energy balance. The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature, and it creates a livable environment on Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise. Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008).

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code Section 38505(g) for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3) (see also 14 CCR 15364.5). The three GHGs evaluated herein are CO_2, CH_4, and N_2O. Emissions of HFCs, PFCs, SF_6, and NF_3 are generally associated with industrial activities including the manufacturing of electrical components, heavy-duty air conditioning units, and insulation of electrical transmission equipment (substations, power lines, and switch gears.). Therefore, emissions of these GHGs were not evaluated or estimated in this analysis because the Project would not include these activities or components and would not generate HFCs, PFCs, SF_6, and NF_3 in measurable quantities.

Gases in the atmosphere can contribute to climate change both directly and indirectly.[12] The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons of CO_2 equivalent (MT CO_2e). Consistent with CalEEMod Version 2016.3.2, this GHG emissions analysis assumed the GWP for CH_4 is 25 (emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC 2007).

The City of Santa Monica and the City of Los Angeles has developed and adopted plans, goals, and policies that will reduce GHG emissions, which are summarized below.

Santa Monica Sustainable City Plan

The Santa Monica City Council initially adopted the Santa Monica Sustainable City Plan (Sustainability Plan) in September 1994, with updates occurring three times, most recently in January 2014. It was designed to help the City of Santa Monica (City) and the community think, plan, and act more sustainability. The Sustainable City Plan includes goals and strategies for the City and community to conserve and enhance local resources, safeguard human health and the environment, maintain a healthy and diverse economy, and improve the livability and quality of life for all community members in the City. To assess progress on meeting citywide goals, nine target areas were identified: resource conservation, environmental and public health, transportation, sustainability local economy, open space and land use, housing, community education and civic participation, human dignity, and arts and culture. For each target area, numerical indicators were developed to help the City achieve each goal by 2020 (City of Santa Monica 2014).

Santa Monica Climate Action and Adaptation Plan

In May 2019, the City of Santa Monica adopted the Climate Action and Adaptation Plan (CAAP). The CAAP provides the roadmap for the City to achieve carbon neutrality by 2050 and to prepare and adapt for climate change impacts. The CAAP focuses on eight Citywide objectives in three sectors: zero net carbon buildings, zero waste and sustainable mobility. The CAAP also lays out a framework for increasing Santa Monica's resilience to climate change through four sectors: Climate Ready Community, Water Self-Sufficiency, Coastal Flooding Preparedness and Low Carbon Food & Ecosystems. The CAAP identifies areas in local government, community building and support to augment by including climate change considerations and adaptation measures.

The intent of the CAAP is to provide overarching policy direction with respect to climate change through Citywide objectives and broad strategies to reduce GHG emissions. The CAAP is not a regulatory plan to be applied on a project by project basis. Rather, the City recognizes that GHG reduction goals cannot be achieved by individual projects alone, but instead requires a comprehensive Citywide approach that would include the enactment of future plans, changes to existing ordinances, and an integrated and sustainable approach to land use/transportation planning.

[12] Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2017).

Santa Monica Land Use and Circulation Element Policies

The City of Santa Monica's Land Use and Circulation Element (LUCE) was adopted in 2010 (last amended in 2017), and is the primary land use and transportation planning document governing existing and future land uses in the City. The LUCE encompasses the community's vision for Santa Monica's future; and establishes goals, policies, and development criteria for land uses and circulation in the City. The Plan's goals are to preserve the City's neighborhoods, reduce GHG emissions, improve mobility and circulation, and encourage the creation of new housing near transit and serves as the City's guiding document for the future.

Santa Monica Municipal Code

The City of Santa Monica's Green Building Standards Code (reflected in SMMC Chapters 8.106 and 8.108) and Energy Reach Code (SMMC Chapter 8.36.010) establishes a set of green building and energy efficiency requirements for new buildings. These requirements address energy efficiency (requiring that on average new buildings be approximately 10% and 15% more efficient than 2016 California Energy Code requires), with requirements for solar energy use and provisions for electric vehicle charging capacity. Further, Chapter 8.108 includes requirements for energy efficient landscaping and water conservation; and construction and demolition waste recycling, with a required diversion rate for construction and demolition waste of 70%.

The SMMC also includes requirements for individual development projects to support alternative modes of transportation, thereby reducing VMT and associated GHG emissions. Section 9.53 of the SMMC, Transportation Demand Management (TDM), includes provisions for development of TDM Plans for individual projects and payment of TDM fees to support City efforts for TDM outreach and Transportation Management Organizations formation activities.

Impact Analysis

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

The following GHG emissions analysis addresses both impact analysis (a) and (b) noted above. OPR's CEQA Guidelines encourage lead agencies to make use of programmatic mitigation plans and programs from which to tier when they perform individual project analyses. Section 15183.5 of the CEQA Guidelines states that a lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project complies with the requirements in a previously adopted mitigation program, or plan for the reduction of GHG emissions.

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. Construction of the Project would result in GHG emissions, which are primarily associated with use of off- road construction equipment, on-road haul and vendor trucks, and worker vehicles. The SCAQMD Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (2008b) recommends that "construction emissions be amortized over a 30-year Project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies." Thus, the total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions. The determination

of significance, therefore, is addressed in the operational emissions discussion following the estimated construction emissions.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 3.3, Air Quality. On-site sources of GHG emissions include off-road equipment and off-site sources include haul trucks, vendor trucks, and worker vehicles. Table 3.8-1 presents construction GHG emissions for the Project in each year of construction from on-site and off-site emission sources.

Table 3.8-1. Estimated Annual Construction Greenhouse Gas Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
2020	23.14	0.00	0.00	23.24
2021	110.13	0.02	0.00	110.72
2022	367.01	0.08	0.00	368.97
2023	34.05	0.00	0.00	17.83
Total	534.33	0.10	0.00	520.76
			Amortized Construction Emissions	17.36

Source: See Appendix A for complete results.
Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.

As shown in Table 3.8-1, the estimated total GHG emissions during construction would be approximately 23 MT CO_2e in 2020, 111 MT CO_2e in 2021, 369 MT CO_2e in 2022, and 18 MT CO_2e in 2023, for a total of 521 MT CO_2e over the construction period. Estimated Project-generated construction emissions amortized over 30 years would be approximately 17 MT CO_2e per year. As with Project-generated construction air quality pollutant emissions, GHG emissions generated during construction of the Project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions. As stated above, construction emissions are amortized and added to operational emissions to estimate total Project-generated GHG emissions.

Long-Term Operational Impacts for All Project Components

Less-Than-Significant Impact. CalEEMod Version 2016.3.2 was used to estimate potential Project-generated operational GHG emissions from natural gas combustion, electrical generation, mobile sources, solid waste, and water supply and wastewater treatment. No area sources that generate GHG emissions are associated with the Project as no increase in landscape maintenance equipment activity from existing conditions is anticipated as a result of the Project. In addition, avoided electricity emissions and associated GHG emissions resulting from use of local groundwater in replacement of imported water is also estimated. Emissions from each category is discussed in the following text with respect to the Project. For additional details, see Section 3.3, Air Quality, for a discussion of operational emission calculation methodology and assumptions, specifically for area, energy (natural gas), and mobile sources. Operational year 2024 was assumed to be the first full year of operation following completion of construction.

Energy Sources. The Project would result in additional energy consumption at the Olympic AWTF and Arcadia WTP Project associated with new improvements and buildings, which was estimated based on CalEEMod land use defaults and square footage of the new Project buildings. For non-residential buildings, CalEEMod energy

intensity value (electricity or natural gas usage per square foot per year) assumptions were based on the California Commercial End-Use Survey database. Emissions are calculated by multiplying the energy use by the utility carbon intensity (pounds of GHGs per kilowatt-hour for electricity or 1,000 British thermal units for natural gas) for CO_2 and other GHGs. Since the new buildings at the Arcadia WTP site are located within the City of Los Angeles, electricity GHG emissions were estimated in CalEEMod using the emissions factors for LADWP. The intensity factor for CO_2 was based on the LADWP 2016 Power Integrated Resource Plan (2015 value, LADWP 2016), and the CH_4 and N_2O intensity factors were derived from CalEEMod Version 2016.3.2 (CAPCOA 2017).

In addition, the Project would result in a net increase in electricity associated with the wells and the Arcadia WTP: 1,621,000 kWh per year and 3,355,000 kWh per year, respectively. The GHG emissions associated with the addition of 4,976,000 kWh per year was estimated in a spreadsheet model based on CalEEMod equations and assumptions. For the wells (1,621,000 kWh per year), which are located within the City of Santa Monica, carbon intensity values were conservatively based on SCE; however, as noted in Section 3.6, the Clean Power Alliance serves the City of Santa Monica, which provides 100% renewable energy, which has a GHG intensity value of zero. The SCE energy use intensity factor was adjusted consistent with SCE's 2017 Power Content Label, which reported that 32% of the power mix was generated by eligible renewable sources (SCE 2017). For the Arcadia WTP (3,355,000 kWh per year), which is located within the City of Los Angeles, the LADWP intensity values were applied and adjusted consistent with the building energy assumptions noted above.

SB X1 2 established a target of 33% from renewable energy sources for all electricity providers in California by 2020 and SB 350 calls for further development of renewable energy, with a target of 50% by 2030. As such, GHG emissions associated with Project electricity would continue to decrease over time.

Mobile Sources. As discussed in Section 3.3, the Project would result in no new employee trips. It was assumed that a maximum of one vendor truck (two one-way trips) for the delivery of chemicals would occur in one day. For the vendor truck emission calculation, it was assumed that 50% would be medium heavy-duty trucks and 50% would be heavy-heavy duty trucks traveling a 20-mile one-way distance.

Regulatory measures related to mobile sources include AB 1493 (Pavley) and related federal standards. AB 1493 required that CARB establish GHG emission standards for automobiles, light-duty trucks, and other vehicles determined by CARB to be vehicles that are primarily used for noncommercial personal transportation in the state. In addition, the National Highway Traffic Safety Administration and EPA have established corporate fuel economy standards and GHG emission standards, respectively, for automobiles and light-, medium-, and heavy-duty vehicles. Implementation of these standards and fleet turnover (replacement of older vehicles with newer ones) will gradually reduce emissions from the Project's motor vehicles. The effectiveness of fuel economy improvements was evaluated to the extent it was captured in the EMFAC2014 emission factors for motor vehicles in 2024.

Solid Waste. The Olympic AWTF and Arcadia WTP Project components would generate minor additional solid waste associated with the new buildings, and therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste. It was assumed that the Project would have a 50% solid waste diversion rate, consistent with the solid waste diversion requirements of Assembly Bill 939, Integrated Waste Management Act. It should be noted that this is a conservative assumption, as the goal for the state is 75% diversion by 2020 in accordance with Assembly Bill 341 in addition to more stringent diversion goals established by the City of Santa Monica.

Water and Wastewater. Supply, conveyance, treatment, and distribution of water for the project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the Project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. Water consumption estimates for both indoor and outdoor water use and associated electricity consumption from water use and wastewater generation were estimated using CalEEMod default values for the Olympic AWTF and Arcadia WTP Project additional buildings. See discussion under energy regarding the estimate of electricity emissions associated with the wells and the Arcadia WTP.

Avoided Water Source Electricity GHG Emissions. As explained in Section 3.6, Energy, because the Project would increase the supply of local groundwater and reduce the use of imported water, there is a reduction in electricity due to the reduction of imported water and a reduction in corresponding GHG emissions. Both imported and local groundwater requires electricity for treatment and distribution; however, use of local groundwater requires electricity for pumping, but not long-distance conveyance. Accordingly, electricity associated with supply of imported water is avoided as a result of replacing the imported water source with local groundwater. As previously explained, the existing capacity of the Arcadia WTP is 10 mpg, with an existing production of 8.9 mgd. The Project would increase capacity of the Arcadia WTP to 13 mgd, with an estimated future production of 12 mgd. It is conservatively assumed that the Project would result in a net increase in 2 mgd at a minimum (12 mgd future production - 10 mgd existing capacity). Accordingly, implementation of the Project would avoid electricity associated with supply of 2 mgd of water. GHG emissions that would be avoided by replacing the water source was estimated based the default CalEEMod water electricity intensity factor for supply, treatment, distribution, and wastewater treatment, the utility GHG intensity factors for LADWP, and the assumption that the Project would replace 730 million gallons per year of imported water with local groundwater.

Table 3.8-2 presents the estimated operational GHG emission from area sources, energy usage, motor vehicles, solid waste generation, and water usage and wastewater generation, amortized construction emissions, and the net change in emissions when considering avoided GHG emissions associated with water supply.

Table 3.8-2. Estimated Annual Operational GHG Emissions

Emission Source	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
Project Emissions				
Area	0.00	0.00	0.00	0.00
Energy	69.99	0.01	0.00	70.18
Mobile	15.26	0.00	0.00	15.38
Solid waste	1.32	0.08	0.00	3.28
Water supply and wastewater (buildings)	17.09	0.00	0.00	17.76
Wells and the Arcadia WTP electricity increase	2,165.01	0.06	0.01	2,710.53
			Total	**2,817.13**
			Amortized Construction Emissions	*17.36*
			Operation + Amortized Construction Total	**2,834.49**

Table 3.8-2. Estimated Annual Operational GHG Emissions

Emission Source	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
Avoided Emissions				
Water Supply (Electricity)	3,645.98	0.09	0.02	**3,654.07**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent
See Appendix A for detailed results.
Avoided water supply (electricity) emissions represent the estimated GHG emissions reduction associated with replacing imported water with local groundwater and the associated reduction in electricity from supply.
Number noted in parenthesis represent a negative number.

As shown in Table 3.8-2, Project operation would result in approximately 2,817 MT CO_2 per year as a result of new building operation and the increase in electricity associated with the wells and Arcadia WTP. With amortized construction emissions, estimated operational emissions and amortized construction emissions is estimated to be 2,834 MT CO_2 per year. When considering the avoided GHG emissions associated with replacing imported water with local groundwater (3,654 MT CO_2 per year), net Project-generated emissions are negative resulting in a potential GHG emissions benefit.

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

Impacts for All Project Components

Less-Than-Significant Impact. The proposed Project would not generate conflict with the Santa Monica Sustainable City Plan, the Santa Monica Climate Action and Adaptation Plan Goals, the Santa Monica Land Use and Circulation Element Policies, the SMMC, SCAG's 2016 RTP/SCS, CARB's Scoping Plan, and SB 32 and Executive Order (EO) S-3-05. A discussion regarding each is provided below.

Project Consistency with the Santa Monica Sustainable City Plan

As discussed previously, the City of Santa Monica adopted its Sustainable City Plan in September 1994 (most recently updated in January 2014), which is a long-term plan to reduce GHG emissions from municipal operations and community activities within the City, and would also help Santa Monica become a more "sustainable" city. Table 3.8-3 provides an overview of applicable goals within the Sustainable City Plan and the Project's consistency with it.

Table 3.8-3. Consistency with Applicable Sustainable City Plan GHG Emission Reduction Strategies

Sustainable City Plan Goals	Analysis of Project's Potential to Conflict with Targets
Resource Conservation	
Goal 1. Significantly decrease overall community consumption, specifically the consumption of non-local, non-renewable, non-recyclable and non-recycled materials, water, and energy and fuels.	***No conflict.*** The Project aims to enhance sustainability of the City of Santa Monica's water supply through developing alternative water supplies and expanding local groundwater supplies to eliminate reliance on purchase of imported water supplies. Accordingly, an objective of the Project is to conserve resources.

Table 3.8-3. Consistency with Applicable Sustainable City Plan GHG Emission Reduction Strategies

Sustainable City Plan Goals	Analysis of Project's Potential to Conflict with Targets
Goal 2. The City should take a leadership role in encouraging sustainable procurement, extended producer responsibility and should model innovative strategies to become a zero waste city.	The Project would divert as much waste during construction as required in accordance with State law. Furthermore, the Project would. divert at least 75% of its Construction and Waste Debris in compliance with SMMC 8.108, Construction and Demolition Material Waste Management Plans. The Project would not inhibit the City from reducing water demand or per capita water use. Note that the Project would reduce GHG emissions from replacing imported water with local groundwater. The new Project buildings at the Arcadia WTP site would meet all applicable energy efficiency standards and the Project would not inhibit the City from improving the GHG efficiency within the City.
Goal 3. Within renewable limits, encourage the use of local, non-polluting, renewable and recycled resources (water, energy, and material resources).	
Environmental and Public Health	
Goal 1. Protect and enhance environmental health and public health by minimizing and where possible eliminating: a. The use of hazardous or toxic materials by residents, businesses and city operations; b. The levels of pollutants entering the air, soil and water; and c. The risks that environmental problems pose to human and ecological health.	***No conflict.*** As discussed in Section 3.9, the proposed Project may require the use of minor amounts of hazardous substances, such as solvents, lubricants, and adhesives. Use of these products would be in accordance with requirements and recommendations in the Safety Data Sheet (described in Section 3.9, Hazards and Hazardous Materials) and would be managed in accordance with federal, state, and local laws and regulations. Contaminated groundwater potentially pumped through the new production wells would be directed to the existing Arcadia WTP or new Olympic AWTF in the same manner as the existing wells and would be treated in accordance with various federal and state regulations. As further discussed in Section 3.19, Utilities and Service Systems, the Project operations would continue coordination with LA Sanitation with regard to discharges from the existing Arcadia WTP to ensure compliance with the Industrial Wastewater Permit issued by the City of Los Angeles.
Goal 2. Ensure that no one geographic or socioeconomic group in the city is being unfairly impacted by environmental pollution.	***No conflict.*** The Project would not be a significant source of criteria air pollutants or TACs. TAC exposure to nearby residential receptors at the Arcadia WTP site would occur for a short duration (1 year) and would be mitigated as discussed in Section 3.3.
Goal 3. Increase consumption of fresh, locally produced, organic produce to promote public health and to minimize resource consumption and negative environmental impacts.	***Not applicable.*** The Project does not involve produce or any food products.
Transportation	
Goal 1. Create a multi-modal transportation system that minimizes and, where possible, eliminates pollution and motor vehicle congestion while ensuring safe mobility and access for all without compromising our ability to protect public health and safety.	***No conflict.*** The Project would generate a maximum of one delivery truck round trip per day, resulting in a minimal net increase in vehicle trips to and from the site. By nature of the chemical deliveries, alternative modes of transport such as pedestrian or bicycle is not feasible. The Project would not impede the City from achieving its transportation and mobility goals.
Goal 2. Facilitate a reduction in automobile dependency in favor of affordable alternative, sustainable modes of travel.	

Source: City of Santa Monica 2014.

As shown in Table 3.8-3, the Project does not conflict with any of the GHG-reducing measures or goals within the Sustainable City Plan and thus, is consistent with this plan.

Project Consistency with the Santa Monica Climate Action and Adaptation Plan Goals

Project consistency with the City's CAAP is presented in Table 3.8-4.

Table 3.8-4. Consistency with Applicable City of Santa Monica CAAP Goals

Measure	Analysis of Project's Potential to Conflict with Measures
Zero Net Carbon Buildings	
Achieve 100% renewable grid electricity.	***No conflict.*** As shown in Table 3.8-2, the operational emissions and amortized construction emissions is estimated to be 2,834 MT CO2 per year. When considering the avoided GHG emissions associated with replacing imported water with local groundwater (3,654 MT CO2 per year), net Project-generated emissions are negative resulting in a potential GHG emissions benefit. The proposed Project would not develop new land uses that would generate new demands for fossil fuels.
Install 100 megawatts of local solar energy.	
Reduce fossil fuel use 20% in existing buildings.	
Discourage fossil fuels in new buildings.	
Zero Waste	
Divert 95% of waste from landfills.	***No conflict.*** The Project consists of the installation of groundwater wells, water pipeline, and water treatment improvements at the Arcadia WTP. No additional significant sources of waste would be generated from the Project.
Sustainable Mobility	
Convert 25% of commuter trips to transit.	***No conflict.*** The Project would generate a maximum of one delivery truck round trip per day, which will likely not be a local trip. The Project would not increase commuter trips to and from the Project site. Due to the nature of the deliveries being chemicals, trips cannot be made by foot, bike, scooter, or skateboard.
Convert 50% of local trips to foot, bike, scooter and skateboard.	
Convert 50% of vehicles to electric or zero emission.	

Source: City of Santa Monica 2019d.

As shown in Table 3.8-4, the Project does not conflict with any of the GHG-reducing measures of the CAAP and thus, is consistent with this plan.

Project Consistency with the Santa Monica Land Use and Circulation Element Policies

The City's LUCE was adopted in 2010 (last amended in 2017), and is the primary land use and transportation planning document governing existing and future land uses in the City. The LUCE encompasses the community's vision for Santa Monica's future; and establishes goals, policies, and development criteria for land uses and circulation in the City. The Plan's goals are to preserve the City's neighborhoods, reduce GHG emissions, improve mobility and circulation, and encourage the creation of new housing near transit and serves as the City's guiding document for the future. Table 3.8-5 shows the Project's consistency with applicable City of Santa Monica LUCE policies.

Table 3.8-5. Consistency with Applicable City of Santa Monica LUCE Policies

Measure	Analysis of Project's Potential to Conflict with Measures
Section 2.1 - Linking Land Use and Transportation Policy to Address Climate Change	
Goal LU2: Integrate Land Use and Transportation for Greenhouse Gas (GHG) Emission Reduction. Integrate land use and transportation, carefully focusing new development on transit rich boulevards and in the districts, to crate sustainable active pedestrian-friendly centers that decrease reliance on the automobile, increase walking, bicycling and transit use and improving community quality of live.	***Not Applicable.*** The Project would not create new land uses or involve transportation-related operations. No new populations or employees would be generated by the Project that could involve pedestrian-supportive infrastructure.
Section 3.1: Sustainability and Climate Change	
S1.1 Pro-actively cooperate with the State to implement AB 32, which calls for reducing GHG emissions to 1990 levels by 2020 and 80% below 1990 levels by 2050.	***No conflict.*** As described in Table 3.8-4, the City's CAAP was developed to meet the City's goal of carbon neutrality. As discussed in Table 3.8-4, the Project is consistent with the goals in the CAAP.
S1.3 Implement the LUCE policies to achieve the following GHG reduction targets as reflected in the Sustainable City Plan Goals: Reduce community-wide GHG emissions to 15% below 1990 levels by 2015.	
S2.1 Implement the VMT reduction policies of the Land Use and Circulation Element of the General Plan including, but not limited to: focusing new growth in mixed-use, transit-oriented districts; focusing new growth long existing corridors and nodes; supporting the creation of complete, walkable neighborhoods with goods and services within walking distance of most homes; and, promoting and supporting a wide range of pedestrian, bicycle and transit improvements in the City.	***Not Applicable.*** The Project would not create new land uses or involve transportation-related operations. No new populations or employees would be generated by the Project that could involve pedestrian-supportive infrastructure, or bicycle and transit improvements.
S2.2 In cooperation with the state and SCAG, proactively promote the implementation of SB 375, in particular utilizing its incentives for transit-oriented development. The City will also ensure that its local plans are consistent with the Sustainable Communities Strategy (SCS) plan requirement of SB 375.	
S2.3 Advance the No Net New Trips goal in the Land Use and Circulation Element with TDM projects such as expanded rideshare programs, parking management strategies, as well as development impact fees for public transit infrastructure.	
S3.1 Actively strive to implement the City's "zero net" electricity consumption goal by 2020 through a wide variety of programs and measures, including the generation of renewable energy in the City and energy efficiency measures.	***No conflict.*** The Project would result in a net reduction in electricity use when considering the avoided electricity associated with supplying water, as shown in Table 3.6-3.
S3.2 Consider a requirement for all new residential buildings to use net zero energy by 2020 and all new commercial buildings by 2030.	***Not applicable.*** These are City goals and not applicable to individual projects.

Table 3.8-5. Consistency with Applicable City of Santa Monica LUCE Policies

Measure	Analysis of Project's Potential to Conflict with Measures
S4.1 Explore creating an ordinance to require solar installations, both photovoltaic and hot water, on new construction projects.	
S5.1 Continue to maintain a building code and prescriptive compliance options that meet or exceed state requirements for energy, water and other sustainability standards. Specifically, pursue California Energy Commission goals to achieve "zero net" energy buildings by 2020 for low-rise residential buildings and 2030 for commercial buildings and achieve a LEED equivalent local building code by 2020.	*No conflict.* The Project's minimal addition structural square footage would be constructed in accordance with applicable building code and energy efficiency standards. The proposed Project does not involve the construction of habitable structures.
S5.6 Encourage cool roofs or green roofs on new buildings.	*No conflict.* The Project's minimal addition structural square footage would be constructed in accordance with applicable building code and energy efficiency standards. The proposed Project does not involve the construction of habitable structures that would require heating or cooling infrastructure.
S5.8 Encourage installation of electrical outlets in loading zones and on the exterior of new buildings to reduce emissions from gas-powered landscape maintenance and operating refrigeration for delivery trucks.	*No conflict.* The Project would not result in new landscape area and no net increase in landscape maintenance equipment or landscaping irrigation is needed.
S6.3 Implement landscape water conservation requirements for new construction projects.	
S8.1 Expand solid waste diversion strategies such as increased commercial recycling collection and outreach, expanded food waste collection, composting and waste to energy conversion programs.	*No conflict.* The Project would divert at least 75% of its Construction and Waste Debris in compliance with SMMC 8.108, Construction and Demolition Material Waste Management Plans.

Source: City of Santa Monica 2017.

Santa Monica Municipal Code

The Project would not conflict with the City of Santa Monica's Green Building Standards Code (reflected in SMMC Chapters 8.106 and 8.108) and Energy Reach Code (SMMC Chapter 8.36.010) as the Project would meet the mandatory measures of the CALGreen Code. The Project would not result in a net increase in employee vehicle trips and would result in a minor increase in delivery trucks to the site; therefore, it would not conflict with the SMMC requirements for alternative modes of transportation or TDM measures.

Project Consistency with SCAG's 2016 RTP/SCS

At the regional level, SCAG has adopted the 2016–2040 RTP/SCS for the purpose of reducing GHG emissions attributable to passenger vehicles in the City and surrounding areas. Although the RTP/SCS does not regulate land use or supersede the exercise of land use authority by SCAG's member jurisdictions (e.g., the City), the RTP/SCS is a relevant regional reference document for purposes of evaluating the connection of land use and transportation patterns and the corresponding GHG emissions. The 2016 RTP/SCS

provides broad direction and guidance for future development – encouraging the development of new uses in areas well served by transit, and in urban infill areas.

Project Consistency with CARB's Scoping Plan

The Scoping Plan (approved by CARB in 2008 and updated in 2014 and 2017) provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. The Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.[13] Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., Low Carbon Fuel Standard), among others.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. Table 3.8-6 highlights measures that have been, or will be, developed under the Scoping Plan and presents the Project's consistency with Scoping Plan measures. The Project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent required by law and to the extent that they are applicable to the project.

Table 3.8-6. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Transportation Sector		
Advanced Clean Cars	T-1	*No conflict.* The Project would result in a nominal net increase in vehicle trips to the site relating to deliveries. Nonetheless, the owner of the delivery trucks would purchase vehicles in compliance with CARB vehicle standards that are in effect at the time of vehicle purchase.
Low Carbon Fuel Standard	T-2	*No conflict.* This is a statewide measure that cannot be implemented by a project applicant or lead agency. Nonetheless, this standard would be applicable to the fuel used by vehicles that would access the project site (i.e., motor vehicles driven by the Project's delivery trucks would use compliant fuels).
Regional Transportation-Related GHG Targets	T-3	*Not applicable.* The Project is not related to developing GHG emission reduction targets. To meet the goals of SB 375, the 2016-2040 RTP/SCS is applicable to the Project. The Project would not preclude the implementation of this strategy.

[13] The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

Table 3.8-6. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Advanced Clean Transit	N/A	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Last-Mile Delivery	N/A	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Reduction in VMT	N/A	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Vehicle Efficiency Measures 1. Tire Pressure 2. Fuel Efficiency Tire Program 3. Low-Friction Oil 4. Solar-Reflective Automotive Paint and Window Glazing	T-4	*No conflict.* The Project would not result in an increase in light-duty vehicles that would access the Project site. In addition, the Project would not prevent CARB from implementing this measure.
Ship Electrification at Ports (Shore Power)	T-5	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Goods Movement Efficiency Measures 1. Port Drayage Trucks 2. Transport Refrigeration Units Cold Storage Prohibition 3. Cargo Handling Equipment, Anti-Idling, Hybrid, Electrification 4. Goods Movement Systemwide Efficiency Improvements 5. Commercial Harbor Craft Maintenance and Design Efficiency 6. Clean Ships 7. Vessel Speed Reduction	T-6	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Heavy-Duty Vehicle GHG Emission Reduction • Tractor-Trailer GHG Regulation • Heavy-Duty Greenhouse Gas Standards for New Vehicle and Engines (Phase I)	T-7	*No conflict.* Heavy-duty vehicles traveling to and from the site for deliveries would be required to comply with CARB GHG reduction measures. In addition, the Project would not prevent CARB from implementing this measure.
Medium- and Heavy-Duty Vehicle Hybridization Voucher Incentive Proposed Project	T-8	*No conflict.* The Project medium- and heavy-duty vehicles (e.g., delivery trucks) could take advantage of the vehicle hybridization action, which would reduce GHG emissions through increased fuel efficiency. In addition, the Project would not prevent CARB from implementing this measure.
Medium and Heavy-Duty GHG Phase 2	N/A	*Not applicable.* The Project would not prevent CARB from implementing this measure.
High-Speed Rail	T-9	*Not applicable.* The Project would not prevent CARB from implementing this measure.

Table 3.8-6. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Electricity and Natural Gas Sector		
Energy Efficiency Measures (Electricity)	E-1	*No conflict.* The Project would comply with the current Title 24 Building Energy Efficiency Standards. In addition, the Project would not prevent CARB from implementing this measure.
Energy Efficiency (Natural Gas)	CR-1	*No conflict.* The Project would comply with the current Title 24 Building Energy Efficiency Standards. In addition, the Project would not prevent CARB from implementing this measure.
Solar Water Heating (California Solar Initiative Thermal Program)	CR-2	*No conflict.* The Project is not anticipated to require substantial amounts of hot water to make solar water heating feasible.
Combined Heat and Power	E-2	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Renewables Portfolio Standard (33% by 2020)	E-3	*No conflict.* The electricity used by the Project would benefit from reduced GHG emissions resulting from increased use of renewable energy sources.
Renewables Portfolio Standard (50% by 2050)	N/A	*No conflict.* The electricity used by the Project would benefit from reduced GHG emissions resulting from increased use of renewable energy sources.
SB 1 Million Solar Roofs (California Solar Initiative, New Solar Home Partnership, Public Utility Programs) and Earlier Solar Programs	E-4	*Not applicable.* The Project would not prevent CARB from implementing this measure. The Project would involves the equipping and installation of groundwater wells, installation of the Olympic pipeline, and improvements at the Arcadia WTP to expand treatment capacity. As an infrastructure project, installation of solar would not be feasible.
Water Sector		
Water Use Efficiency	W-1	*No conflict.* The Project would support CARB in implementing this measure by replacing imported water supply with local groundwater supply, which would increase overall efficiency in the water supply system.
Water Recycling	W-2	*No conflict.* The Project would not prevent CARB from implementing this measure. Injection Wells SM-10i and SM-11i would recharge the Olympic Well Field with previously treated water from the City's Sustainable Water Infrastructure Project (SWIP) to maintain sustainable yield levels; thereby, reusing urban runoff.
Water System Energy Efficiency	W-3	*No conflict.* As with W-1, the Project would support CARB in implementing this measure by replacing imported water supply with local groundwater supply, which would increase overall efficiency in the water supply system.
Reuse Urban Runoff	W-4	*No Conflict.* The Project would not prevent CARB from implementing this measure Injection Wells SM-10i and SM-11i would recharge the Olympic Well Field with

Table 3.8-6. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
		previously treated water from the City's Sustainable Water Infrastructure Project (SWIP) to maintain sustainable yield levels; thereby, reusing urban runoff.
Renewable Energy Production	W-5	*No conflict.* The Project would not prevent CARB from implementing this measure. Additionally, the Project would reduce the City's carbon footprint by contributing to the reduction/elimination of imported State Water Project water.
Green Buildings		
State Green Building Initiative: Leading the Way with State Buildings (Greening New and Existing State Buildings)	GB-1	*No conflict.* The Project would be required to be constructed in compliance with state or local green building standards in effect at the time of building construction.
Green Building Standards Code (Greening New Public Schools, Residential and Commercial Buildings)	GB-1	*No conflict.* The Project's buildings would meet green building standards that are in effect at the time of design and construction.
Beyond Code: Voluntary Programs at the Local Level (Greening New Public Schools, Residential and Commercial Buildings)	GB-1	*No conflict.* Project's buildings would meet green building standards that are in effect at the time of design and construction.
Greening Existing Buildings (Greening Existing Homes and Commercial Buildings)	GB-1	*Not applicable.* This is applicable for existing buildings only.
Industry Sector		
Energy Efficiency and Co-Benefits Audits for Large Industrial Sources	I-1	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Oil and Gas Extraction GHG Emission Reduction	I-2	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Reduce GHG Emissions by 20% in Oil Refinery Sector	N/A	*Not applicable.* The Project would not prevent CARB from implementing this measure.
GHG Emissions Reduction from Natural Gas Transmission and Distribution	I-3	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Refinery Flare Recovery Process Improvements	I-4	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Work with the Local Air Districts to Evaluate Amendments to Their Existing Leak Detection and Repair Rules for Industrial Facilities to Include Methane Leaks	I-5	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Recycling and Waste Management Sector		
Landfill Methane Control Measure	RW-1	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Increasing the Efficiency of Landfill Methane Capture	RW-2	*Not applicable.* The Project would not prevent CARB from implementing this measure.

Table 3.8-6. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
Mandatory Commercial Recycling	RW-3	*Consistent.* During both construction and operation of the Project, the project would comply with all state regulations related to solid waste generation, storage, and disposal, including the California Integrated Waste Management Act, as amended.
Increase Production and Markets for Compost and Other Organics	RW-3	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Anaerobic/Aerobic Digestion	RW-3	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Extended Producer Responsibility	RW-3	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Environmentally Preferable Purchasing	RW-3	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Forests Sector		
Sustainable Forest Target	F-1	*Not applicable.* The Project would not prevent CARB from implementing this measure.
High GWP Gases Sector		
Motor Vehicle Air Conditioning Systems: Reduction of Refrigerant Emissions from Non-Professional Servicing	H-1	*Consistent.* The Project's employees would be prohibited from performing air conditioning repairs, including for the HVAC system in the new CCRO Building for the electrical room, and would be required to use professional servicing.
SF_6 Limits in Non-Utility and Non-Semiconductor Applications	H-2	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Reduction of Perfluorocarbons (PFCs) in Semiconductor Manufacturing	H-3	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Limit High GWP Use in Consumer Products	H-4	*Consistent.* The Project would not result in an increase in employees. Nonetheless, the Arcadia WTP existing employees would use consumer products that would comply with the regulations that are in effect at the time of manufacture.
Air Conditioning Refrigerant Leak Test During Vehicle Smog Check	H-5	*Consistent*. Motor vehicles driven by the Project's delivery trucks would comply with the leak test requirements during smog checks.
Stationary Equipment Refrigerant Management Program – Refrigerant Tracking/Reporting/Repair Program	H-6	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Stationary Equipment Refrigerant Management Program – Specifications for Commercial and Industrial Refrigeration	H-6	*Not applicable.* The Project would not prevent CARB from implementing this measure.
SF_6 Leak Reduction Gas Insulated Switchgear	H-6	*Not applicable.* The Project would not prevent CARB from implementing this measure.

Table 3.8-6. Project Consistency with Scoping Plan GHG Emission Reduction Strategies

Scoping Plan Measure	Measure Number	Project Consistency
40% Reduction in Methane and Hydrofluorocarbon (HFC) Emissions	N/A	*Not applicable.* The Project would not prevent CARB from implementing this measure.
50% Reduction in Black Carbon Emissions	N/A	*Not applicable.* The Project would not prevent CARB from implementing this measure.
Agriculture Sector		
Methane Capture at Large Dairies	A-1	*Not applicable.* The Project would not prevent CARB from implementing this measure.

Notes: GHG = greenhouse gas; CARB = California Air Resources Board; VMT = vehicle miles traveled; SB = Senate Bill; N/A = not applicable; SF_6 = sulfur hexafluoride.

As shown in Table 3.8-6, the Project would not conflict with any of the Scoping Plan measures and therefore, the Project is consistent with this plan.

Project Consistency with Senate Bill 32 and Executive Order S-3-05

The Project would not impede the attainment of the most recent State GHG reduction goals identified in SB 32 and EO S-3-05 and. SB 32 establishes a statewide goal of reducing GHG emissions to 40% below 1990 levels by 2030 while EO S-3-05 establishes a statewide goal of reducing GHG emissions to 80% below 1990 levels by 2050. While there are no established protocols or thresholds of significance for that future year analysis; CARB forecasts that compliance with the current Scoping Plan puts the state on a trajectory of meeting these long-term GHG goals, although the specific path to compliance is unknown (CARB 2014).

CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014, p. ES2). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014, p. 34):

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, EO B-30-15, and EO S-3-05. This is confirmed in the 2017 Scoping Plan which states the following (CARB 2017):

> The Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while also identifying new, technologically feasible, and

> cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities.

As discussed previously, the Project is consistent with the City of Santa Monica's Sustainable City Plan, Climate Action and Adaptation Plan, LUCE; the City of Los Angeles Green New Deal; SCAG's 2016 RTP/SCS; and CARB's 2017 Scoping Plan, and would not conflict with the state's trajectory toward future GHG reductions. In September 2018, EO B-55-18 was signed which commits the state to total carbon neutrality by 2045. However, since the specific path to compliance for the state in regards to the long-term goals will likely require development of technology or other changes that are not currently known or available, specific additional mitigation measures for the Project would be speculative and cannot be identified at this time. The Project's consistency would assist in meeting the City's contribution to GHG emission reduction targets in California. With respect to future GHG targets under SB 32 and EO S-3-05, CARB has also made clear its legal interpretation is that it has the requisite authority to adopt whatever regulations are necessary, beyond the AB 32 horizon year of 2020, to meet SB 32's 40% reduction target by 2030 and EO S-3-05's 80% reduction target by 2050; this legal interpretation by an expert agency provides evidence that future regulations will be adopted to continue the state on its trajectory toward meeting these future GHG targets.

Summary

Based on the considerations previously outlined, the Project would not generate substantial GHG emissions or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and no mitigation is required. This impact would be less than significant.

3.9 Hazards and Hazardous Materials

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. HAZARDS AND HAZARDOUS MATERIALS – Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☒	☐	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☒	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☒	☐	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☒	☐	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☒	☐	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

Existing Setting

All Project Components

California Government Code Section 65962.5 requires that information regarding environmental impacts of hazardous substances and wastes be maintained and provided at least annually to the Secretary for Environmental Protection. Commonly referred to as the Cortese List, this information must include the following: sites impacted by hazardous wastes, public drinking water wells that contain detectable levels of contamination, underground storage tanks with unauthorized releases, solid waste disposal facilities from which there is migration of hazardous wastes, and all cease and desist and cleanup and abatement orders. While the Cortese List is no longer maintained as a single list, the following databases provide information that meet the Cortese List requirements:

1. List of Hazardous Waste and Substances sites from Department of Toxic Substances Control (DTSC) Envirostor database (Health and Safety Codes 25220, 25242, 25356, and 116395);
2. List of Leaking Underground Storage Tank (LUST) Sites by County and Fiscal Year from the State Water Resources Control Board (Water Board) GeoTracker database (Health and Safety Code 25295);
3. List of solid waste disposal sites identified by the Water Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273 subdivision (e) and California Code of Regulations Title 14 Section 18051));

4. List of "active" Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the Water Board (Water Code Sections 13301 and 13304); and
5. List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by DTSC.

As part of this analysis, the Cortese List databases were reviewed for contaminated sites that could impact the environmental conditions of the Project site. Dudek conducted a search for sites within 0.5-mile of all proposed Project components. Dudek reviewed available information on GeoTracker and EnviroStor for each of the sites of concern identified in the Cortese List databases, as well as other hazardous material sites that could impact the Project, including voluntary cleanup sites and corrective action sites, not otherwise included on the Cortese List. For all sites within 0.5-mile of the Project, Dudek determined, based on the regulatory status, available documentation, extent of documented contamination, and distance from the proposed Project, if the site of concern would likely impact the environmental condition of the proposed Project. Existing environmental hazards are identified in Figure 15, Project Site Hazards.

In addition to the hazardous material sites identified on GeoTracker and EnviroStor, Dudek reviewed the location of hazardous material pipelines identified in the National Pipeline Mapping System public database (NPMS 2020), and oil and gas wells identified in the California Department of Conservation Geologic Energy Management Division. The National Pipeline Mapping System public database provides the location and information on gas and hazardous liquid transmission pipelines that are under the jurisdiction of the Pipeline and Hazardous Materials Safety Administration. Dudek did not identify pipelines that run adjacent to or transect the proposed Project. The online Well Finder is a mapping application that provides information on the location and status of oil and gas wells and other related features and facilities located throughout the State of California. No oil and gas wells were identified within the Project site, nor is the proposed Project located within an oil well field. Two idle oil and gas wells are located approximately 0.3-mile north of the northern pipeline section and the existing Arcadia WTP. The proposed Project does not overlap the Methane and Methane Buffer Zones, as identified by the City of Los Angeles Bureau of Engineering (City of Los Angeles 2004).

Much of the land surrounding the proposed Project is highly developed, and overall the Project area lacks any lands considered wildlands or wildland–urban interfaces. According to the California Department of Forestry and Fire Protection's Fire Hazard Severity Zones maps, the proposed Project locations are neither moderately, highly, nor very highly susceptible to wildland fire (CAL FIRE 2007).

Dudek conducted a search of active (CSCD 2020) and proposed schools (CDE 2020) located within 0.25 miles of the proposed Project components. Schools identified below are also shown in Figure 15.

Olympic Well Field Restoration

The proposed Olympic Well Field Restoration footprint was not identified on a Cortese List database. One Cortese List site was identified on EnviroStor within 0.5-mile of the proposed Olympic Well Field Restoration:

- Colorado Place, Broadway & Cloverfield Blvd, was the site of a former clay quarry and landfill. The site was proposed for development in 1990 and underwent a Preliminary Endangerment Assessment. Documents available through DTSC indicate that there was soil and soil-vapor contamination. Based on the results of the Preliminary Endangerment Assessment, the site was delisted and received a no further action (NFA)

designation in 1991. Based on the distance from the proposed Project (0.3-mile from SM-10i) and NFA status, this site does not appear to have impacted the environmental conditions of the proposed Project.

Multiple Cortese List sites (closed LUST sites) and other cleanup sites were identified on GeoTracker within 0.5-mile of the proposed Olympic Well Field Restoration. The following sites were determined to be sites of concern to the proposed Project:

- Olympic Well Field Contamination Plume: The proposed groundwater wells SM-8 and SM-9, and injection wells SM-10i and SM-11i are located within the radius of influence of the Olympic Well Field restoration project. The groundwater in this area is impacted by volatile organic compounds (VOCs) associated with historical manufacturing, fabrication, and other activities by multiple companies. Contamination has been documented in the Olympic Well Field since at least 1982 (ICF 2017). The most recent groundwater monitoring report (ICF 2020) interprets the groundwater contamination plumes in the shallower B-zone aquifer (100 to 120 feet bgs, approximately) as approximated in Figure 15. Parties reportedly responsible for the Olympic Well Field groundwater contamination include the former Gillette and Boeing Facilities, and the Bergamot Arts Center. Most of these facilities have conducted remediation and investigation efforts and have obtained NFA status with the Regional Water Quality Control Board (RWQCB). Ongoing groundwater monitoring is conducted and reported by the City of Santa Monica; data is submitted to the Los Angeles RWQCB under the Corporate Yards LUST Cleanup File (T0603799303). The two primary contaminants in the Olympic Well Field are PCE and TCE; other VOCs are also present (ICF 2020). Based on recent groundwater monitoring data (ICF 2020), the proposed wells SM-8, SM-9, SM-10i and SM-11i will likely be located within VOC contamination plumes in the deeper B- and C-zone aquifers. This groundwater contamination may also impact soil and soil vapor within the contamination zones (area of plume at depth of groundwater; B-zone aquifer is greater than 100 feet bgs). Recent data collected in 2019 indicated that concentrations of VOCs in wells SM-3 and SM-4[14] within the Olympic Well Field, are as shown in Table 3.9-1.

Table 3.9-1 2019 Groundwater Data for SM-3 and SM-4

VOCs (measured in µg/L)	SM-3	SM-4
Chloroform	1.4	3.6
PCE	6.8	39
TCE	3.4	52
1,2,3-Trichloropropane	ND	0.00540
1,1-Dichloroethylene	ND	1.9
Cis-1,2-Dichloroethylene	ND	1.7
Total Trihalomethanes (THM)	1.4	3.6

ND = not detected above laboratory method detection limit
µg/L = micrograms per liter

- Former Boeing/Douglas A7 Plant: The proposed location of SM-11i is within Ishihara Park, which is located on the former Boeing/Douglas Plant A7. The site was redeveloped in 2014-2015 as a Metro rail station and public park. The site is currently undergoing remediation under the oversight of the Los Angeles RWQCB, and is part of the Olympic Well Field restoration project. Remediation of the site is required under

[14] SM-4 is located within the median of Olympic Boulevard east of Stewart Street. This well would not be altered by and is not a part of the proposed Project.

Cleanup and Abatement Order (CAO) Number R4-2012-0171, which obligates Boeing to restore and replace the groundwater impacted by former operations (State of California 2012). The CAO includes a Settlement and Release agreement, which specifies rights, duties, and obligations for Boeing and the City of Santa Monica with regard to restoration and replacement of groundwater. The most recent investigation at the Former Boeing/Douglas Plant A7 was a human health risk assessment on potential impacts of soil vapor contamination at the site (Geosyntec 2016). The results of the human health risk assessment determined that residual soil vapor contamination is below target health risks for current/hypothetical future residents and/or industrial workers. In 2013, a supplemental groundwater assessment was conducted on the site (Avocet 2013). Four groundwater monitoring wells were installed and sampled. Shallow groundwater depths ranged from 36.81 to 51.56 feet bgs. TCE was detected in each well at concentrations ranging from 9.2 µg/L to 90 µg/L. Additionally, chloroform (4.7 to 28 µg/L), 1,1-DCE (1.2 µg/L to 7.8 µg/L), and PCE (9.6 µg/L) were detected in multiple samples. This groundwater contamination is similar to that identified in the Olympic Well Field Contamination Plume; however this contamination plume is in the shallow A-zone aquifer (30 to 50 feet bgs), rather than the deeper B-zone and C-zone aquifers (approximately 100 to 120 feet, and 150 to 170 feet bgs, respectively). The A-zone TCE contamination plumes, as interpreted (Avocet 2013), are shown in Figure 15. This groundwater contamination may also impact soil and soil vapor conditions within the contamination zones (area of plume at depth of groundwater). Investigation is ongoing at this site; a work plan for additional groundwater assessment was submitted to the Los Angeles RWQCB in May 2020 (EA Engineering Analytics 2020).

Olympic Pipeline

Asbestos was widely used in a variety of building materials up until the 1980s. This includes components used for construction of plant utilities (like clarifiers, buildings, piping, and pump stations) such as caulking, cement, fireproofing materials, and tar. It also includes asbestos-cement (transite) piping. The EPA released a partial ban on asbestos-containing materials in 1989, but a full ban on the use and marketing of asbestos-containing materials did not occur until April 2019. The United States also banned lead-based paint for use in housing in 1978; however, lead-based paint use in commercial structures was not included in this ban. In addition, universal waste items containing hazardous materials (e.g., polychlorinated biphenyls, metals) may be present, including fluorescent light ballasts, mercury thermometers, and batteries. Yellow traffic striping located along the roadways of the proposed pipeline alignment, especially traffic striping applied prior to 2000, may contain high levels of lead chromate. Lead chromate in yellow traffic striping can contain approximately 20,000 parts per million (ppm) lead and 5,000 ppm hexavalent chromium. Debris generated during removal activities could meet the definition of hazardous waste (Caltrans 2011).

Multiple Cortese List sites (closed LUST sites) and other cleanup sites were identified on GeoTracker within 0.5-mile of the proposed Olympic Well Field Restoration. The following sites were determined to be sites of concern to the proposed Project:

- Olympic Well Field Contamination Plume: Portions of the Olympic Pipeline would pass through the Olympic Well Field contamination plume, specifically the southern portion from Pennsylvania Avenue to Nebraska Avenue, and from SM-8 to Stewart Street. According to a report completed on the former Boeing/Douglas A7 Plant (Avocet 2013), shallow (A-zone) groundwater is at a depth of approximately 36 to 52 feet bgs. Maximum detected concentrations of VOCs in this aquifer at the Former Boeing/Douglas A7 Plant included 1,1-DCE (7.8 µg/L), chloroform (28 µg/L), TCE (90 µg/L), and PCE (9.6 µg/L) (Avocet 2013). The approximate boundaries of the TCE plume in the A-zone are similar to the Olympic Well Field Contamination

Plume (Avocet 2013). While impacts to soil vapor in connection with the Boeing/Douglas A7 Plant are reportedly below health risks for residents and industrial workers, there may be soil and soil vapor impacts off the Boeing/Douglas A7 Plant site associated with A-zone groundwater contamination within the contamination zones (area of plume at depth of groundwater).

- Pen Factory: The section of pipeline extending eastward from SM-8 would lie adjacent to the former Pen Factory site. This site is a known contributor to the Olympic Well Field groundwater contamination plume, and is also undergoing remediation for soil and soil vapor contamination. Recent soil sampling data (Ramboll 2015) and sub-slab vapor sampling data (Ramboll 2019) do not include data from the Olympic Blvd right-of-way. However, sample results adjacent to the right-of-way do not show detections of contaminants above commercial/industrial risk-based concentrations. PCE had the highest concentrations in soil vapor along the Olympic Blvd right-of-way at 25.8 and 27.8 µg/m3. These concentrations are below the commercial/industrial environmental screening level (ESL)[15] of 67 µg/m3. Therefore, the remaining contamination at the Pen Factory site is not likely to have a significant impact on the proposed Project.

Olympic AWTF and Arcadia WTP Expansion

The proposed Olympic AWTF and Arcadia WTP Expansion are co-located at the existing Arcadia WTP. Under the existing conditions, the Arcadia WTP submits facility information, a hazardous materials inventory, an emergency response/contingency plan, and Aboveground Petroleum Storage Act (APSA) documentation to California Environmental Protection Agency's California Environmental Reporting System (CERS). Pursuant to the federal Emergency Planning and Community Right to Know Act and the APSA, all handlers of hazardous materials, are required to submit their information to CERS for an annually review (CAL OES 2019). The hazardous materials at the existing Arcadia WTP are recorded and identified as part of CERS. The Arcadia WTP has an existing Consolidated Emergency Response/Contingency Plan, which identifies procedures for containing spills, releases, fires, or explosions, and prevents associated harm to persons, property, and the environment; facility evacuation; arrangements for emergency services; emergency equipment, its location, and capabilities; and employee training on operations and hazards. In addition, the Arcadia WTP maintains a Spill Prevention, Control, and Countermeasure (SPCC) Plan related to oil spills from the 5,000 gallon aboveground electric generator gas tank located on the site. The facility maintains data and maps of the property related to the locations of the numerous eye-wash stations, electrical shut-off components, and eye-wash safety shower facilities throughout the Arcadia WTP; as well as the types and amounts of chemicals stored at the various buildings on the property (City of Santa Monica 2019e).

Existing Training Protocols

The City of Santa Monica conducts formal and informal trainings on all facility operations and hazards. Formal training is provided by the City's Risk Management Division through certified training vendors and fellow employees. Formal trainings are recorded and training documents are distributed to employees. Informal trainings are usually provided by fellow employees or supervisors in a form of on-the-job training meetings. The City provides additional hazardous materials management training for those employees that would be exposed to hazardous materials in

[15] The ESLs were developed by the San Francisco Regional Water Quality Control Board as conservative screening levels for over 100 chemicals found at sites with contaminated soil and groundwater. ESLs are not intended to establish policy or regulation, but are used state-wide on a variety of sites to evaluate potential impacts due to environmental contamination. In Dudek's experience, regulatory agencies state-wide have used these ESLs for conservative cleanup goals. In this context, they are referenced as a conservative screening level for proposed Project implementation (e.g. worker safety, disposal).

the workplace. In addition, all new employees are trained in the various levels of emergency response to ensure their ability to effectively respond to an emergency at each facility. All staff are initially trained in the following:

- City of Santa Monica Emergency Planning and Response
- Familiarity with all treatment processes
- Hazards associated with each treatment process
- Hazards Communications and Safety Training
- Proper handling of all chemicals used in the facilities
- Proper use of Personal Protective Equipment
- Fire safety
- Lockout-tagout procedures
- How to work with corrosives, solvents, flammables, and reactive
- Respiratory protection
- Confined Space
- Employee's right to know law
- First aid for various chemicals
- Vehicle and crane operations and safety
- Non-routine tasks
- Training records
- Emergency coordination
- Proposition 65 compliance chemical list and labeling of hazardous materials

In addition, the City provides annual trainings on all safety topics listed above and on any changes in the law, procedures, and policies, that includes, but may not be limited to: (1) handling regulated substances; (2) hazards and proper handling of all chemicals used in the treatment process; (3) changes in the treatment process; (4) maintenance procedures in the treatment process; and (5) review of all accidents associated with the use of hazardous chemicals (City of Santa Monica 2019e). Additionally, refresher trainings are conducted when new process equipment is installed.

Database Search Results

Based on a review of historic aerial photographs (NETR 2020), the Arcadia WTP was constructed prior to 1952. Expansion and redevelopment of the various structures occurred throughout the lifetime of the plant, between 1952 and present day. As the Arcadia WTP was constructed before the 1950s, there is a potential for hazardous building materials to be present. The proposed Project may require demolition and rehabilitation of existing structures, which could disturb hazardous building materials and create an impact to the environment.

One Cortese List site was identified within 0.5-mile of the existing Arcadia WTP, as follows:

- **Former Mobil Service Station 18-LDM:** This former gasoline service station is located at 12054 Wilshire Blvd, which is located within the proposed Project footprint at the east corner of Wilshire Blvd and S Bundy Drive (see Figure 15). The site would be used as a staging area for construction of the proposed Project. A leaking underground storage tank was reported on the site in 1989. Monitoring wells were installed both on the former Mobil Service Station site and on the Arcadia WTP property. Following remediation and monitoring activities, the site received regulatory closure (NFA) in 2009. The NFA letter (LA RWQCB 2009) stated residual concentrations of soil contaminants were below EPA soil screening levels, residual concentrations of groundwater contaminants in the production aquifer (B-zone) were below EPA Maximum Contaminant Levels (MCLs), the contaminant plume was limited to the site and was decreasing, and the potential for vapor intrusion was reportedly insignificant. Additionally, the remaining contamination has likely naturally attenuated since the NFA was received in 2009. Reportedly, wells on the former Mobil Service Station site and the Arcadia WTP site have been abandoned. While this site is located within the footprint of the proposed Project, it is not likely to impact the proposed Project.

Impact Analysis

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

Olympic Well Field Restoration

Construction

Less-Than-Significant Impact With Mitigation Incorporated. Construction would include well completion activities for two new production wells (SM-8 and SM-9) and two new injection wells (SM-10i and SM-11i), as well as construction of the proposed recycled water pipeline and artistic fencing enclosures. Construction would require the use of heavy machinery and equipment. Potentially hazardous materials used during construction may include gasoline, diesel fuel, lubricating oil, grease, adhesive materials, solvents, paints, and other materials that potentially contain hazardous substances. The materials used would not be in such quantities or stored in such a manner as to pose a significant safety or environmental hazard. Project construction workers would be trained in safe handling and hazardous materials use, as required. Activities at the Project site, including those conducted by a contractor, shall comply with existing federal, state, and local regulations regarding hazardous material use, storage, disposal, and transport to prevent Project-related risks to public health and safety. All on-site generated waste that meets hazardous criteria shall be stored, manifested, transported, and disposed of in accordance with federal, state, and local requirements. On-site generated contaminated waste shall be stored, transported, and disposed of as required by federal, state, and local requirements, and will be either treated or disposed of at an authorized and permitted facility, as required.

The wells are located within the Olympic Well Field Contamination Plume, as discussed in the Existing Setting section above. The wells would be installed to the depth of the B-zone and C-zone aquifers. While ground-disturbing activities associated with new well component installation are not anticipated to extend greater than 8 feet bgs, installation of well piping, pumps, and initiating groundwater flow could expose workers to contaminated groundwater. Additionally, decommissioning of SM-3 would require removal of well components and casings that have been exposed to contaminated media within the Olympic Well Field Contamination Plume. Contaminated materials associated with these activities may require special handling, transportation, and disposal procedures. Therefore, impacts related to the handling, transport, and use of hazardous materials is considered potentially significant. As such, MM-HAZ-1, a hazardous material contingency plan would be required that addresses the potential contamination associated with completion of the proposed wells.

MM-HAZ-1 Prior to commencement of Project-related demolition or earth-moving activities at the Olympic Well Field and Olympic Pipeline, a Hazardous Materials Contingency Plan (HMCP) shall be developed and provided to the City for review and approval. The HMCP shall address the potential impacts related to disturbance of potentially contaminated soil, soil vapor and/or groundwater. The HMCP shall clearly identify known areas of contamination that overlap with the Project components. The HMCP shall include training procedures for construction crews for the identification, assessment, characterization, management, and proper disposal of hazardous constituents, materials, and wastes, in accordance with all applicable state and local regulations. If impacted soils or groundwater are encountered during excavation activities, the contaminated soils and/or groundwater shall be

managed and disposed of in accordance with local and state regulations. The HMCP shall include health and safety measures, which may include periodic work breathing zone monitoring, monitoring for volatile organic compounds using a handheld organic vapor analyzer, and/or other equally effective measures in areas where known contamination is present. The City of Santa Monica or its designee shall implement the HMCP during all construction activities for the proposed Project that require ground disturbance in areas of known contamination, as outlined in the HMCP.

Handling, discharge, and disposal of groundwater, if required, would require proper permitting, testing, and documentation in accordance with federal, state, and local discharge requirements and permits. Compliance with existing federal, state, and local regulations, implementation of MM-HAZ-1, and limited excavation depths will adequately identify and address potentially contaminated environmental media, such that the routine transportation and disposal of investigation derived waste during well construction has a less than significant impact after mitigation to the public or the environment.

Operation

Less-Than-Significant Impact. Operation of the proposed wells would not be expected to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Maintenance of the proposed wells may require the use of minor amounts of hazardous substances, such as solvents, lubricants, and adhesives. The wells would also require ongoing chemical dosing (sodium hypochlorite or bleach) and electrical use for pumping/injection operations. These chemicals would be stored in small quantities at the well site. The Hazard Communication Standard (29 CFR 1910.1200(g)), requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets for each hazardous chemical to describe the proper handling, transportation, cleanup, and protective measures. Use of these products would be in accordance with requirements and recommendations in the Safety Data Sheet and would be managed in accordance with federal, state, and local laws and regulations. Operators tasked with handling treatment chemicals would be properly trained in chemical handling and transportation. Remaining contaminated soils would be subsurface. Contaminated groundwater pumped through the new production wells would be directed via the Olympic Pipeline to the new Olympic AWTF for treatment to remove contaminants. Transportation of the water would be through subsurface pipelines, and would not expose the public or the environment to potentially contaminated groundwater. Therefore, impacts would be less than significant.

Olympic Pipeline

Construction

Less-Than-Significant Impact With Mitigation Incorporated. As discussed in the Olympic Well Field Restoration section, potentially hazardous materials used during construction would not be in such quantities or stored in such a manner as to pose a significant safety or environmental hazard. Project construction workers would be trained in safe handling and hazardous materials use, as required. Activities at the Project site, including the site preparation, grading, slurry backfill, and paving by a contractor, shall comply with existing federal, state, and local regulations regarding hazardous material use, storage, disposal, and transport to prevent Project-related risks to public health and safety.

The proposed Olympic Pipeline alignment would be constructed within existing roadways. Traffic striping on the roads may contain hazardous levels of lead and hexavalent chromium. Construction that removes road surfaces may create wastes that contain hazardous levels of chromium and lead. Prior to road surface removal, a lead survey would be conducted in accordance with MM-HAZ-2, which will include collecting and analyzing samples of the traffic striping prior to its removal. Proper identification, delineation, and abatement of potentially hazardous materials would prevent potential exposure of hazardous materials to the public or the environment during transportation and disposal of potentially contaminated media.

MM-HAZ-2 Prior to commencement of demolition or construction activities at the Olympic Pipeline or Arcadia Water Treatment Plant, a hazardous materials site survey shall be conducted. The survey shall be conducted on the proposed Olympic Pipeline alignment to identify yellow traffic striping (if it is going to be disturbed/removed as part of construction) that may contain lead chromate, and on the Arcadia WTP buildings to be disturbed/demolished for asbestos, lead-based paint, polychlorinated biphenyls, and universal wastes. Following results of the hazardous materials survey, demolition or renovation plans and contract specifications shall incorporate abatement procedures for the removal of materials containing asbestos, lead, lead chromate, polychlorinated biphenyls, and universal waste items, as required. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency, Occupational Safety and Health Administration, California Occupational Safety and Health Administration, and the South Coast Air Quality Management District.

Portions of the pipeline would be constructed within the Olympic Well Field Contamination Plume, specifically the extent along Berkeley Street from Nebraska Avenue to Pennsylvania Avenue, and SM-8 to Stewart Street, approximately. Construction and installation of the pipeline would require excavation up to a maximum depth of 8 feet bgs to avoid preexisting utilities. Potential impacts associated with the Olympic Well Field Contamination Plume and other former industrial operations (see Former Boeing/Douglas A7 Plant discussion, above) at the maximum proposed excavation depth would be related to potential soil vapor contamination. Implementation of MM-HAZ-1, would adequately identify and address potentially contaminated soil vapor in the portion of the pipeline that would be within the Olympic Well Field contamination plume.

Compliance with existing federal, state, and local regulations, as well as implementation of MM-HAZ-1 and MM-HAZ-2, will adequately identify and address potentially contaminated environmental media and hazardous materials such that the routine use, transportation, and disposal during construction has a less than significant impact after mitigation to the public or the environment.

Operation

Less-Than-Significant Impact. Operation of the Olympic Pipeline would be passive and subsurface and is not expected to create a hazard to the public or environment. Maintenance of the proposed pipeline may require the use of minor amounts of hazardous substances, such as solvents, lubricants, and adhesives. Use of these products would be in accordance with requirements and recommendations in the Safety Data Sheet and would be managed in accordance with federal, state, and local laws and regulations. Remaining contaminated soils, if any, would be subsurface and paved over. Contaminated groundwater potentially pumped through the proposed Olympic Pipeline would be directed to the existing Arcadia WTP or proposed Olympic AWTF in the same manner as the existing pipeline. Transportation of the water would be subsurface

and would not expose the public or the environment to potentially contaminated groundwater. Therefore, routine use, transportation, and disposal during operation would have a less than significant impact to the public or the environment.

Olympic AWTF and Arcadia WTP Expansion

Construction

Less-Than-Significant Impact With Mitigation Incorporated. As discussed in previous sections, potentially hazardous materials used during construction would not be in such quantities or stored in such a manner as to pose a significant safety or environmental hazard. Project construction workers would be trained in safe handling and hazardous materials use, as required. Activities at the Project site, including those conducted by a contractor, shall comply with existing federal, state, and local regulations regarding hazardous material use, storage, disposal, and transport to prevent Project-related risks to public health and safety.

As the Arcadia WTP has been in operation since at least the 1950s, there is a potential for hazardous building materials, including lead, asbestos, polychlorinated biphenyls (PCBs), and universal wastes, to be present. A hazardous building material survey and abatement would be conducted in accordance with MM-HAZ-2 on structures and appurtenances, such as water pipelines, scheduled for demolition or rehabilitation.

The Arcadia WTP currently receives and processes water that contains VOC contamination. The new Olympic AWTF is proposed to treat water coming directly from the Olympic Well Field, which also contains VOC contamination. It is not anticipated that construction of the proposed Project would interfere with ongoing Arcadia WTP operations. The new Olympic AWTF would not receive the contaminated water until fully operational. Therefore, impacts related to the transportation of contaminated groundwater are not anticipated.

Compliance with existing federal, state, and local regulations, as well as implementation of MM-HAZ-2, will adequately identify and address potentially hazardous materials such that the routine use, transportation, and disposal during construction would have a less than significant impact after mitigation to the public or the environment.

Operation

Less-Than-Significant Impact. Operation of the new Olympic AWTF and expanded Arcadia WTP would include pre-treatment filtration, UV/H2O2 AOP, and a GAC system. Hazardous materials, including hydrogen peroxide, would be required for operation of the system. Additionally, maintenance of the system may require use of minor amounts of hazardous materials, such as solvents, paints, and adhesives. Use of these products would be in accordance with requirements and recommendations in the Safety Data Sheet and would be managed in accordance with federal, state, and local laws and regulations. As required by state and local regulations, storage of hazardous materials would be reported to the local regulatory agency and a hazardous material business plan (HMBP) would be completed and submitted to the local agency. The City would be required to prepare or update their existing hazardous materials inventory, an emergency response/contingency plan, and APSA documentation pursuant to Emergency Planning and Community Right to Know Act and APSA for operations at the Olympic AWTF and Arcadia WTP. The Consolidated Emergency Response/Contingency Plan identifies procedures for containing spills, releases, fires, or explosions, and prevents associated harm to persons, property, and the environment; facility evacuation;

arrangements for emergency services; emergency equipment, its location, and capabilities; and employee training on operations and hazards. In addition, the SPCC Plan related to oil spills would identify location of oils storage containers, oil spill controls, methods for inspection and testing, and emergency procedures and notification.

Water treatment and discharge permits for wastewater, would be obtained and followed in accordance with federal, state, and local laws and regulations. As such, routine use, transportation, and disposal during operation would have a less than significant impact to the public or the environment.

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

Olympic Well Field Restoration

Construction

Less-Than-Significant Impact With Mitigation Incorporated. As discussed in the above sections, ground-disturbing activities associated with new well component installation are not anticipated to extend greater than 8 feet bgs. However, installation of well piping, pumps, and initiating groundwater flow could expose workers to contaminated groundwater. Additionally, decommissioning of SM-3 would require removal of well components and casings that have been exposed to contaminated media. The construction associated with wells is regulated by the California Department of Water Resources. Permitting and enforcement are carried out by local enforcing agencies, which is Los Angeles County Department of Health Services, for the proposed Project. The standards for well construction are outlined by California Well Water Standards – Bulletin 74-81 & 74-90 to exclude contamination or pollution from surface drainage. Additionally, water well construction activities must be performed only by a licensed C-57 Water Well Contractor, which would further ensure proper well construction to prevent foreseeable upset and accident conditions (DWR 2020). Should discharges be required during construction that aren't covered under the California Well Water Standards, the City would be required to submit a notice of intent to the appropriate agencies and get appropriate discharge permissions. As the area is wholly urbanized, discharges would likely be either to the sanitary or storm sewers. Sanitary discharges would require permissions from the sanitary district, while storm sewer discharges would require permissions from both the City and regional water board. Submittal of applications and notice of intent are required by law under the Clean Water Act prior to discharge. Depending upon the quality of the discharged water, pretreatment may be required, which would be established following submittal of the notice of intent to discharge. Further, implementation of MM-HAZ-1 would require a HMCP to be implemented that would address proper identification, handling, and disposal procedures for contaminated media during construction. The HMCP would include release response and reporting procedures in the event of a release of hazardous materials to the environment. With implementation of MM-HAZ-1, potential impacts to the public or environment due to upset and accident conditions would be less than significant with mitigation incorporated.

Operation

Less-Than-Significant Impact. Once operational, the wells for the proposed Project would not be expected to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. Hazardous materials

used for operation and maintenance of the wells would be in accordance with requirements and recommendations in the Safety Data Sheet, and would be managed in accordance with federal, state, and local laws and regulations. Operators tasked with handling treatment chemicals would be properly trained in chemical handling and transportation. The wells would be designed in accordance the Department of Water Resources Bulletin 74, which sets minimum standards for wells with the purpose of protecting California's groundwater quality. Impacts would be less than significant.

Olympic Pipeline

Construction

Less-Than-Significant Impact With Mitigation Incorporated. As discussed in the above sections, construction of the pipeline is limited to 8 feet below ground surface; thus contaminated groundwater would not be encountered. However, potentially contaminated soil vapor may be encountered in the portion of the proposed pipeline that is within the Olympic Well Field contamination plumes (see Figure 15). Implementation of MM-HAZ-1 would require a HMCP to be implemented that would address proper identification, handling, and disposal procedures for contaminated media, as well as health and safety procedures in the event a release of hazardous soil vapor occurs during construction. A hazardous material survey and abatement would be conducted in accordance with MM-HAZ-2 to identify potential lead and chromium contamination in yellow traffic striping (if it will be removed during construction). With implementation of MM-HAZ-1, MM-HAZ—2, and limited excavation such that contaminated media is not impacted, potential impacts to the public or environment due to upset and accident conditions would be less than significant after mitigation.

Operation

Less-Than-Significant Impact. Although unlikely, during operation of the Olympic Pipeline, a catastrophic release could occur resulting in release of large quantities of contaminated water, causing flooding and potential exposure of contaminants to the public and the environment. The City of Santa Monica has a Hazard Mitigation Plan (HMP) that addresses critical facilities and potential results of catastrophe (fire, earthquake, etc.). The HMP is created under Federal Emergency Management Agency (FEMA) guidelines, rules, and regulations, as well as applicable state and local regulations. The HMP would be updated to include emergency procedures for catastrophic release from the proposed Olympic Pipeline and would address the potential for flooding and exposure of contaminated water to the public and the environment. With adherence to federal, state, and local regulations, including those related to emergency response plans and procedures, potential impacts due to reasonably foreseeable upset and accident conditions would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Construction

Less-Than-Significant Impact With Mitigation Incorporated. As discussed in the sections above, there is a potential for hazardous building materials, including lead, asbestos, PCBs, and universal wastes, to be present. Demolition and disposal of these materials without proper abatement could case an upset or accident condition. A hazardous building material survey and abatement would be conducted in accordance with MM-HAZ-2 on structures and appurtenances, such as water pipelines, scheduled for demolition or

rehabilitation. With implementation of MM-HAZ-2, impacts from foreseeable upset or accident conditions would be less than significant with mitigation incorporated.

Operation

Less-Than-Significant Impact. Although unlikely (due to adherence to strict regulations), a catastrophe, such as a fire or earthquake, could result in damage to hazardous material storage containers or water treatment containers at the Arcadia WTP, causing a release of large quantities of hazardous materials and/or contaminated water. Operational permits and plans, including the HMBP and water discharge permits, would require emergency release and spill response plans and procedures, in the event of catastrophic release. Additionally, the City of Santa Monica HMP would be updated to include emergency procedures for catastrophic release at the new Olympic AWTF and expanded Arcadia WTP. With adherence to federal, state, and local regulations, potential impacts due to reasonably foreseeable upset and accident conditions would be less than significant.

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

Olympic Well Field Restoration

Less-Than-Significant Impact With Mitigation Incorporated. Santa Monica Community College, 1660 Stewart Street, is located approximately 0.14-mile north of the proposed SM-8. New Roads K-12, 3131 Olympic Blvd, is located approximately 0.03-mile northwest of the proposed SM-9 (CSCD 2020; CDE 2020). Hazardous materials required for construction and operation would be transported, handled, stored, and disposed of in accordance with federal, state, and local laws and regulations, as described in the previous analysis sections. Hazardous materials used during construction of the proposed Project would be stored within proposed Project boundaries. Once operational, there would be no hazardous materials stored at the wellheads. HMBPs, spill prevention plans, and emergency response plans would be developed as required by federal, state, and local regulations. These regulations and requirements provide protection from emissions and releases of hazardous materials to the environment, including nearby schools.

Hazardous materials associated with environmental contamination would be managed by the HMCP, as described in MM-HAZ-1, which would mitigate the risk of hazardous emissions to the environment. Therefore, impacts related to emissions or handling of hazardous materials near schools would be less than significant with mitigation incorporated.

Olympic Pipeline

Less-Than-Significant Impact With Mitigation Incorporated. New Roads school, 3131 Olympic Blvd, is located approximately 0.03-mile northwest of the proposed pipeline that connects SM-9 to the former SM-3. Lighthouse Christian Academy, 1424 Yale Street, is located approximately 0.19-mile west-southwest of the proposed Olympic Pipeline (CSCD 2020; CDE 2020). Hazardous materials required for construction pipeline would be transported, handled, stored, and disposed of in accordance with federal, state, and local laws and regulations, as described in the previous analysis sections. Hazardous materials used during construction of the pipeline would be stored within the immediate site area, away from nearby schools. HMBPs, spill prevention plans, and emergency response plans would be developed as required by state

and local regulations. These regulations and requirements provide protection from emissions and releases of hazardous materials to the environment, including nearby schools. Hazardous environmental media, including soil vapor, would be managed by the HMCP, as described in MM-HAZ-1, which would mitigate the risk of hazardous emissions to the environment. Hazardous materials associated with potential lead and chromium contaminated yellow traffic striping would be identified and abated as described in MM-HAZ-2. Therefore, impacts related to emissions or handling of hazardous materials near schools would be less than significant with mitigation incorporated. There would be no hazardous materials required for operation of the pipeline.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact With Mitigation Incorporated. University High School Charter, 11800 Texas Avenue, is located approximately 0.21-mile east of the Arcadia WTP. Brockton Avenue Elementary, 1309 Armacost Avenue, is located approximately 0.08-mile east of the Arcadia WTP (CSCD 2020; CDE 2020). Hazardous materials required for construction and operation of the WTP would be transported, handled, stored, and disposed of in accordance with federal, state, and local laws and regulations, as described in the previous analysis sections. Hazardous materials used during construction and operation of the proposed Project would be stored within proposed Project boundaries. HMBPs, spill prevention plans, and emergency response plans would be developed as required by state and local regulations. These regulations and requirements provide protection from emissions and releases of hazardous materials to the environment, including nearby schools. Hazardous materials associated with potential hazardous building materials (asbestos, lead-based paint, PCBs) would be identified and abated as described in MM-HAZ-1. Therefore, impacts related to emissions or handling of hazardous materials near schools would be less than significant after mitigation.

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

Olympic Well Field Restoration

Construction

Less-Than-Significant Impact With Mitigation Incorporated. The proposed wells are located within the footprint of the Olympic Well Field Contamination Plume, which includes Cortese List sites (see Existing Setting). SM-11i is also located in the footprint of the Former Boeing/Douglas Plant A7, which is also within the footprint of the Olympic Well Field Contamination Plume. Groundwater in this area has documented VOC contamination above regulatory cleanup levels in all documented aquifers (A-, B-, and C-zone aquifers). In addition, contaminated soil vapor may be present in the area that is within the Olympic Well Field contamination plume, especially those areas with documented contamination in the A-zone shallow aquifer (30 to 50 feet bgs). While ground-disturbing activities associated with new well component installation are not anticipated to extend greater than 8 feet bgs, installation of well piping, pumps, and initiating groundwater flow could expose workers to contaminated groundwater. Hazardous materials associated with environmental contamination would be managed by the HMCP, as described in MM-HAZ-1, which would mitigate the risk of creating a hazard to the public or the environment. However, the Project itself is proposed to restore the Olympic Well Field to full production capacity and remove key contaminants by

constructing the Olympic Pipeline from the Olympic Well Field to the Arcadia WTP in order to separate Olympic Well Field contaminated groundwater from the Charnock Well Field groundwater for separate treatment at the Arcadia WTP. With implementation of MM-HAZ-1, hazards to the public or the environment from a hazardous material sites would be less than significant after mitigation.

Operation

Less-Than-Significant Impact. Once operational, the proposed Project would not be expected to create a hazard to the public or the environment due to the presence of contaminated sites. The Project itself is proposed to restore the Olympic Well Field to full production capacity and remove key contaminants by constructing the Olympic Pipeline from the Olympic Well Field to the Arcadia WTP in order to separate Olympic Well Field contaminated groundwater from the Charnock Well Field groundwater for separate treatment at the Arcadia WTP. Excavations would be backfilled, contaminated water would be confined to the well and attached piping, and the site would be secured from public access, removing the potential for subsurface contamination to be exposed to the public or the environment. Impacts would be less than significant.

Olympic Pipeline

Construction

Less-Than-Significant Impact With Mitigation Incorporated. Portions of the pipeline overlap the Olympic Well Field Contamination Plume, which includes Cortese List sites. The Pen Factory site is also located adjacent to proposed pipeline that connects SM-8 to the existing pipeline. However, as discussed in the Existing Setting section, it is unlikely this site has impacted the environmental conditions of the Project site. As discussed in the above section, potential impacts due to the environmental contamination would be managed as described in MM-HAZ-1, which would mitigate the risk of creating a hazard to the public or environment from a hazardous material site. With implementation of MM-HAZ-1, hazards to the public or the environment from a hazardous material sites would be less than significant with mitigation incorporated.

Operation

Less-Than-Significant Impact. Once operational, the proposed Project would not be expected to create a hazard to the public or the environment due to the presence of contaminated sites. The proposed Olympic Pipeline would operate within the subsurface and excavations would be backfilled and repaved, minimizing the potential for subsurface contamination to be exposed to the public or the environment. Impacts would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Construction

Less-Than-Significant Impact. . The Former Mobil gasoline service station, which is a Cortese List site, is located within the Project site. However, as discussed in the Existing Setting section, the remaining contamination would not likely impact the proposed Project. As discussed in the previous sections, water from the Olympic Well Field is likely to contain VOC contamination, which would be processed and removed through the Olympic AWTF and Arcadia WTP as designed. Water would not be received by the AWTF until construction was complete. Operation of the Arcadia WTP is not expected to be interrupted during construction. Impacts would be less than significant.

Operation

Less-Than-Significant Impact. Once operational, the proposed Project would not be expected to create a hazard to the public or the environment due to the presence of contaminated sites. The treatment systems would operate as designed, thereby removing groundwater contaminants associated with the Olympic Well Field Contamination Plume. Operation of the Olympic AWTF and Arcadia WTP would be permitted and monitored in accordance with federal, state, and local laws and regulations. Impacts related to nearby contaminated sites are within the subsurface and have been determined to be below risk thresholds by the regulatory agency. Impacts would be less than significant.

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

Impacts for All Project Components

No Impact. The Santa Monica Municipal Airport, which is located approximately 0.8-mile from SM-11i, approximately 0.9-mile from the Olympic Pipeline at Centinela Avenue and Olympic Boulevard, and approximately 1.6 miles south of the existing Arcadia WTP at the closest points. However, the proposed Project components are not identified as being located within the Airport Influence Area for the Santa Monica Municipal Airport (ALUC 2003). Furthermore, on February 1, 2017, the City entered a consent decree with the Federal Aviation Administration to close Santa Monica Municipal Airport in 2028 and shorten the runway from 4,973 feet in length to 3,500 feet by December 7, 2017 to reduce the number flight operations at the airport. Under this agreement, the City is required to maintain stable and continuous operations at Santa Monica Municipal Airport until its closure on December 31, 2028 (City of Santa Monica 2018c). The Project site is also more than 2 miles from the Los Angeles International Airport. Further, the proposed Project would not involve placing people or structures in proximity to aircraft operations. Therefore, no impacts associated with public airport hazards would occur.

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

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed Project would not impair or physically interfere with an adopted emergency response plan or a local, state, or federal agency's emergency evacuation plan. Operationally, the proposed Olympic Well Field Restoration would not materially change the characteristics of the area surrounding the proposed production wells and injection wells location in a way that would alter emergency response or evacuation plans. Emergency access along Olympic Boulevard and other roadways would be maintained at all times during construction. As such, the proposed Project would not physically interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, impacts would be less than significant.

Olympic Pipeline

Less-Than-Significant Impact With Mitigation Incorporated. The proposed Project involves the construction of the new Olympic Pipeline with existing roadways in the Cities of Santa Monica and Los Angeles. Upon completion of construction, the roadways would be restored to its preconstruction conditions, and therefore, would not interfere with an emergency response plan or emergency evacuation plan. During construction, short-term transportation-related hazards may be introduced due to the presence and use of construction vehicles and equipment including; lane closures, driveway blockages, loss of parking, and disruptions to traffic, transit, bicycle, and pedestrian movement especially in and around the pipeline alignment along Arizona Avenue, Texas Avenue, Saltair Avenue, and Berkeley Street. This may result in a potentially significant safety hazard to construction workers and/or the public; therefore, mitigation would be required. Therefore, incorporation of MM-TRAF-1, as described in Section 3.17(c), would ensure that any temporary impacts to emergency vehicle flow and/or ingress/egress to facilities is coordinated in advance with emergency service providers and law enforcement. This coordination would ensure that provision of sufficient emergency service, access, and evacuation will occur during construction, if necessary. Implementation of MM-TRAF-1 would prevent potentially significant impacts to local emergency service providers. Therefore, impacts would be less than significant with incorporation of mitigation.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The proposed Project would not impair or physically interfere with an adopted emergency response plan or a local, state, or federal agency's emergency evacuation plan. Operationally, the proposed Olympic AWTF and Arcadia WTP Expansion would not materially change the characteristics of the existing Arcadia WTP in a way that would alter emergency response or evacuation plans. Emergency access along Wilshire Boulevard and other roadways would be maintained at all times during construction. As such, the proposed Project would not physically interfere with an adopted emergency response plan or evacuation plan. Therefore, impacts would be less than significant.

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

Impacts for All Project Components

No Impact. The area surrounding the proposed Project is highly developed, and as a whole, the Project area lacks any lands considered wildlands or wildland–urban interfaces. According to the California Department of Forestry and Fire Protection's Fire Hazard Severity Zones maps, the proposed well locations, Olympic Pipeline alignment, and existing Arcadia WTO are neither moderately, highly, nor very highly susceptible to wildland fire (CAL FIRE 2007). Therefore, no impacts associated with wildland fires would occur.

3.10 Hydrology and Water Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY – Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) result in substantial erosion or siltation on or off site;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) impede or redirect flood flows?	☐	☐	☐	☒
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

Existing Setting

All Project Components

Surface Water Quality

Water quality for all surface water and groundwater within the greater Los Angeles area is regulated under the jurisdiction of the Los Angeles Regional Water Quality Control Board (RWQCB). Water quality standards for all waters in the region are discussed in the region's Basin Plan. Section 303(d) of the federal Clean Water Act (CWA) requires states to identify the waters of the state that do not meet the CWA's national goal of "fishable, swimmable" waters and to develop total maximum daily loads for such waters, with oversight of the United States Environmental Protection Agency (EPA). These waters are commonly referred to as "impaired." A total maximum daily load is a quantifiable assessment of potential water quality issues, contributing sources, and load reductions or control actions needed to restore or protect bodies of water.

Groundwater

Regionally, the Project area is underlain by the Santa Monica Basin. The basin is located in western Los Angeles County and overlies the entire City of Santa Monica, Culver City, Beverly Hills, and portions of western Los Angeles. The basin has a surface area of 50.2 square miles of mostly flat to mildly hilly terrain. The basin is bounded by impermeable rocks of the Santa Monica Mountains to the north, the Ballona Escarpment (Bluffs) to the south, the Newport-Inglewood fault to the east, and the Pacific Ocean to the west. Extensive faulting within the basin results in five district subbasins including: the Arcadia subbasin, Olympic subbasin, Coastal subbasin, ~~Chamock~~ Charnock subbasin, and the Crestal subbasin (City of Santa Monica 2016c).

In accordance with the Sustainable Groundwater Management Act (SGMA), the California DWR has classified the Santa Monica Basin as having a medium priority for enacting a Groundwater Sustainability Plan (GSP). Under SGMA, medium and high priority basins are required to submit a GSP or an alternative plan to the DWR by 2022 to ensure that sustainable groundwater goals are met by 2042 (DWR 2019). In response to this prioritization, the Santa Monica City Council has authorized the City to participate in the formation of a Groundwater Sustainability Agency (GSA) over the Santa Monica Basin in collaboration with LADWP, the City of Beverly Hills, Culver City, and Los Angeles County. The GSA will develop and implement a GSP to ensure groundwater is managed on a sustainable basis (SMPW 2019).

Santa Monica's aquifers are replenished by rainfall; through percolation of stream runoff along canyons, streams, and gullies, especially along the front of the Santa Monica Mountains; and by irrigation return, water Development of homes, schools, and businesses over the last century has steadily reduced the amount of rainfall-runoff able to percolate into the groundwater system. Much of the water now flows along paved streets and into lined storm drains where it flows directly to the ocean. Currently, the only areas that may significantly recharge Santa Monica Basin are aquifers within Santa Monica Canyon and large country clubs throughout the area. Much of Santa Monica has extensive residential developments with large lawns. These lawns, as well as the open spaces of golf courses and city parks, provide some additional areas for deep percolation and recharge of excess irrigation. However, the amount of water returned to the aquifer is maybe 5% to 10% of the irrigation and rainfall in these areas (City of Santa Monica 2015).

Drinking Water Quality Standards

Drinking water statutes are codified in the California Code of Regulations (CCR)– Title 17 and 22; Corporations Code, Education Code, Food and Agricultural Code, Government Code, Health and Safety Code, Public Resources Code, and Water Code. Drinking water standards are called maximum contaminant levels (MCLs). MCLs are found in Title 22 of the CCRs. Primary MCLs address health concerns and aesthetics, such as taste and odor, are addressed by secondary MCLs.

Olympic Well Field Restoration

As previously discussed in Section 2.1.2, Oil Well Field Contaminants, the Olympic Well Field contains several contaminants that would require additional treatment to meet drinking water standards. The key contaminants in the Olympic Well Field include: 1,2,3-Trichloropropane (1,2,3-TCP), 1,4- Dioxane, TCE, and PCE.

The Project area is located in the coastal plain, a gently south sloping area of low relief, containing only a few depressions or ponding areas. At its lowest point, the Project is approximately 150 feet above mean sea level (msl) along Olympic Boulevard (USGS 2019). The Project area and the surrounding area is predominately paved and developed. The existing Olympic Boulevard median is grass-covered. Additionally, Ishihara Park includes ornamental vegetation and pervious areas. Nonetheless, the predominance of impervious surfaces in the Olympic Well Field Restoration area prevents water from percolating into the ground, increasing the amount of runoff reaching the storm drain infrastructure.

Existing stormwater runoff from the areas surrounding the proposed well locations is conveyed via sheet flow and curb drains to the adjacent streets, which then directs flows to subsurface storm drains. It appears that stormwater flows in the Project area travel through municipal storm drains until converging into the 12-inch, reinforced cement concrete, Kenter Canyon Drain. Kenter Canyon Drain eventually drain into the Santa Monica Bay (LACDPW 2019).

The proposed Project is located in an area identified by FEMA as being within Zone X (FEMA 2019), which indicates an area of minimal (<0.2%) flood. In addition, the nearest wellhead is approximately 2.1 miles from the ocean and is not located adjacent to any standing bodies of water, the Project site would not be susceptible to tsunamis and seiches.

Olympic Pipeline

The proposed Olympic Pipeline alignment is located in the coastal plain, a gently south sloping area of low relief, containing only a few depressions or ponding areas. The pipeline alignment and associated trenching would be entirely contained within City-owned property and within publicly-owned right-of-way within the Cities of Santa Monica and Los Angeles. The predominance of impervious surfaces prevents water from percolating into the ground, increasing the amount of runoff reaching the storm drain infrastructure.

According to the Los Angeles County Department of Public Works (LACDPW) Los Angeles County Storm Drain System and regional topographic patterns (USGS 2015), it appears a segment of the proposed new pipeline extending mid-way between South Bundy Drive and Amherst Avenue, flow through municipal storm drains before discharging into the Ballona Creek. For the remainder of the alignment, it appears that stormwater flows through municipal storm drains until converging into the 132-inch, reinforced cement concrete, Kenter Canyon Drain. Both Ballona Creek and the Kenter Canyon Drain eventually drain into the Santa Monica Bay (LACDPW 2019).

The proposed Olympic Pipeline is located in an area identified by FEMA as being within Zone X (FEMA 2019), which indicates an area of minimal (<0.2%) flood. In addition, as the Project is approximately 2.75 miles from the ocean at its closest point and is not located adjacent to any standing bodies of water, the Project site would not be susceptible to tsunamis and seiches.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is located on a relatively flat parcel and is approximately 250 feet above mean sea level (msl) (USGS 2019). The Arcadia WTP and the surrounding area is predominately paved and developed. Vegetation within and near the Project area consists of maintained lawns and ornamental vegetation, as well as shrubs and trees located in isolated planter areas. The predominance of impervious surfaces prevents water from percolating into the ground, increasing the amount of runoff reaching the storm drain infrastructure. Undeveloped land has a much higher rate of recharge.

Existing stormwater runoff from the Project site is conveyed via sheet flow and curb drains to the adjacent streets, which then directs flows to subsurface storm drains. According to the LACDPW's Los Angeles County Storm Drain System and regional topographic patterns (USGS 2015), it appears that the Arcadia WTP flow through municipal storm drains before discharging into the Ballona Creek. Ballona Creek contains the following 303(d) contaminants: cadmium, chlordane, DDT (Dichlorodiphenyltrichloroethane), and dieldrin (SWRCB 2017).

The proposed Project is located in an area identified by FEMA as being within Zone X (FEMA 2019), which indicates an area of minimal (<0.2%) flood. In addition, as the Project is approximately 3.0 miles from the ocean and is not located adjacent to any standing bodies of water, the Project site would not be susceptible to tsunamis and seiches.

Impact Analysis

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

Olympic Well Field Restoration

Construction

Less-Than-Significant Impact. Water quality impacts could occur during construction as a result of spilled or leaked petroleum products and/or entrainment of sediment, debris, or other construction-related materials into stormwater runoff. In addition, construction may involve certain non-stormwater discharges, including excavation dewatering discharge that, if improperly performed, could contribute pollutants to the local storm drain system or receiving waters.

To avoid adverse impacts on water quality, the City of Santa Monica and/or its construction contractors would conduct construction activities in accordance with the statewide Construction General Permit (Order No. 2009-0009-DWQ/CAS000002, as amended), which require the implementation of a SWPPP. The SWPPP would include all applicable BMPs necessary to meet discharge prohibitions, effluent limitations, and other performance standards specified in the permit. The following list includes examples of BMPs that would be implemented during construction of the project:

- Storm drain inlets in the construction area would be surrounded by gravel bags or other suitable methods of filtration.
- All potential hazardous wastes would be contained, transported, and disposed of in accordance with applicable regulations.

- Construction work areas would be regularly swept and kept clean, orderly, and free of trash.
- Upon completion of construction activities, the area would be restored to pre-construction conditions.
- All authorized non-storm water discharges would be identified in the SWPPP along with BMPs that would be implemented to eliminate or reduce pollutants, which may include the use of settling tanks or screens to reduce suspended sediment loads.

The specific location and type of BMPs to be implemented would be outlined in the SWPPP, which must be prepared by a qualified SWPPP professional. Construction would not begin until a waste discharge identification number and letter of coverage have been received from the SWRCB. Compliance with the Construction General Permit and the associated SWPPP prepared for the project would result in less than significant impacts to water quality during construction and excavation. Therefore, construction impacts associated with water quality standards would be less than significant

Operation

Less-Than-Significant Impact Operationally, the proposed Olympic Well Field Restoration would not materially change the characteristics of the area surrounding the proposed wells in a way that would result in loss of topsoil affecting downstream waterways. In addition, the proposed wells are not located within a site of significant groundwater infiltration; thus, impacts to groundwater quality would be less than significant. The wells would be designed in accordance the Department of Water Resources Bulletin 74, which sets minimum standards for wells with the purpose of protecting California's groundwater quality. Further, the proposed Project itself involves expanding local groundwater production by providing advanced treatment for the contaminated groundwater basin to return Olympic Well Field to its full production capacity, thus restoring the Olympic Well Field. The proposed Project would not result in a substantial increase in impervious area with the exception of grading pads around the well sites. However, the increase in impervious area would be over an existing median and within a City-park that has already been developed and does not serve as a significant groundwater recharge area or an area near a surface body of water. The wells would be constructed in accordance with the City's Municipal Code requirements, including Chapter 7.10, Runoff Conservation and Sustainable Management, which addresses the City's requirement to minimize potential adverse impacts to receiving waters, through runoff reductions, and Low-Impact Development (LID) and Green Infrastructure requirements, as applicable. Best practices at the well sites may include the use of permeable paving materials (e.g. pervious concrete and porous asphalt, pervious concrete and plastic modular and interlocking paving materials) and/or directing rainwater or runoff to permeable areas for infiltration. Therefore, operational impacts associated with water quality standards would be less than significant.

Olympic Pipeline

Construction

Less-Than-Significant Impact. Water quality impacts could occur during construction as a result of spilled or leaked petroleum products and/or entrainment of sediment, debris, or other construction-related materials into stormwater runoff. In addition, construction may involve certain non-stormwater discharges, including excavation dewatering discharge that, if improperly performed, could contribute pollutants to the local storm drain system or receiving waters.

To avoid adverse impacts on water quality, the City of Santa Monica and/or its construction contractors would conduct construction activities in accordance with the statewide Construction General Permit (Order No. 2009-0009-DWQ/CAS000002, as amended), which require the implementation of a SWPPP. The SWPPP would include all applicable BMPs necessary to meet discharge prohibitions, effluent limitations, and other performance standards specified in the permit. Sediment-control BMPs may include stabilized construction entrances, sediment filters on existing inlets, or the equivalent to reduce erosion impacts and to prevent, to the extent feasible, stormwater runoff conveying sediments to downstream receiving water (measured listed above). Compliance with the Construction General Permit and the associated SWPPP prepared for the project would result in less than significant impacts to water quality during construction and excavation. Therefore, construction impacts associated with the proposed Olympic Pipeline would be less than significant.

Operation

Less-Than-Significant Impact Operationally, the proposed Olympic Pipeline would not materially change the characteristics of the roadways in a way that would result in loss of topsoil affecting downstream waterways, which could impact downstream water quality. In addition, the existing roadways do not provide significant groundwater infiltration and installation of the below grade pipeline would not change the impervious nature of the roadway; thus, impacts to groundwater quality would be less than significant. Further, the proposed Project itself involves restoring the Olympic Well Field and expanding local groundwater production by providing advanced treatment for the contaminated groundwater basin to return Olympic Well Field to its full production capacity. Therefore, operational impacts associated with water quality standards would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Construction

Less-Than-Significant Impact. Water quality impacts could occur during construction as a result of spilled or leaked petroleum products and/or entrainment of sediment, debris, or other construction-related materials into stormwater runoff. In addition, construction may involve certain non-stormwater discharges, including excavation dewatering discharge that, if improperly performed, could contribute pollutants to the local storm drain system or receiving waters.

To avoid adverse impacts on water quality, the City of Santa Monica and/or its construction contractors would conduct construction activities in accordance with the statewide Construction General Permit (Order No. 2009-0009-DWQ/CAS000002, as amended), which require the implementation of a SWPPP. The SWPPP would include all applicable BMPs necessary to meet discharge prohibitions, effluent limitations, and other performance standards specified in the permit. Sediment-control BMPs may include stabilized construction entrances, sediment filters on existing inlets, or the equivalent to reduce erosion impacts and to prevent, to the extent feasible, stormwater runoff conveying sediments to downstream receiving water (measured listed above). Compliance with the Construction General Permit and the associated SWPPP prepared for the project would result in less than significant impacts to water quality during construction and excavation.

If high groundwater is encountered during excavations, groundwater would be removed during the excavation, either by pumping it from the ground through dewatering wells that have been installed adjacent to the site or by using sump pumps at the bottom of the excavation. The extracted groundwater would be pumped into a settling tank, tested, and then treated for any contaminants before discharged to the sewer. The City of Santa Monica would be required to comply with all applicable permit conditions. Therefore, construction impacts associated with water quality would be less than significant.

Operation

Less-Than-Significant Impact. Operationally, the proposed Olympic AWTF and Arcadia WTP Expansion would not materially change the characteristics of the alignment in a way that would result in loss of topsoil affecting downstream waterways, which could impact downstream water quality. In addition, the proposed Project is not located within a site of significant groundwater infiltration; thus, impacts to groundwater quality would be less than significant. Further, the proposed Project itself involves restoring the Olympic Well Field and expanding local groundwater production by providing advanced treatment for the contaminated groundwater basin to return Olympic Well Field to its full production capacity. Proposed development would predominately occur in previously developed areas, which are paved.

The operations of the Olympic Well Field Restoration component could potentially result in an increase in brine discharge at the existing Arcadia WTP because an increase in local water supply flow would run through the treatment train and generate RO concentrates. However, coordination with LA Sanitation with regard to discharges from the existing Arcadia WTP would ensure the proposed Project would continue to comply with the Industrial Wastewater Permit issued by the City of Los Angeles. Currently, the City is approved to discharge 44,317 gallons per day to the City of Los Angeles sewer system at the northern end of the existing Arcadia WTP (LA Sanitation 2018). The proposed Project would not request additional sewer disposal capacity from LA Sanitation for the greensand filter backwash, which currently goes to LA Sanitation's sewer because the Project proposes to reduce the RO concentrates that will be discharged (Pour, pers. comm. 2020). Therefore, there the proposed Olympic Well Field Restoration can be served by LA Sanitation's existing sewer disposal line to ensure the proposed Project does not exceed wastewater discharge requirements. Impacts would be less than significant.

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

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed Olympic Well Field Restoration consists of the installation of up to four wells. Operation of the proposed Project would not interfere with groundwater recharge. The two proposed production wells (SM-8, SM-9) would harvest groundwater and convey it to the Olympic AWTF for treatment. As such, the production wells would allow for groundwater recovery and the injection wells (SM-10i, SM-11i) would recharge the Olympic Well Field with purified water from the City's SWIP to maintain sustainable yields. Further, the proposed Project itself involves restoring the Olympic Well Field and expanding local groundwater production by providing advanced treatment for the contaminated groundwater basin to return Olympic Well Field to its full production capacity. As such, the proposed Project would not deplete groundwater supplies or interfere substantially with groundwater recharge, and impacts would be less than significant.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline would not require the permanent use of water supplies, which could decrease groundwater supplies. Rather the pipeline would convey groundwater. In addition, the existing and proposed pipeline alignment are located with existing roadways that are impervious, and thus, does not support groundwater recharge. Therefore, the construction and operations associated with the proposed Project would not decrease groundwater or interfere substantially with groundwater recharge that may impede sustainable groundwater management. As such, no impact would occur.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. Construction of the proposed Project would not substantially increase the amount of impermeable surface area on-site and would not substantially interfere with groundwater recharge. Operation of the proposed Project would not interfere with groundwater recharge. A portion of the groundwater would be harvested and sent to the Olympic AWTF during operation of the proposed Project. However, the production wells would allow for groundwater recovery and the injection wells would recharge the Olympic Well Field with purified water from the City's SWIP to maintain sustainable yields. Further, the proposed Project itself involves restoring the Olympic Well Field and expanding local groundwater production by providing advanced treatment for the contaminated groundwater basin to return Olympic Well Field to its full production capacity. As such, the proposed Project would not deplete groundwater supplies or interfere substantially with groundwater recharge, and impacts would be less than significant.

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

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

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. All Project components are within urbanized areas of the cities of Santa Monica and Los Angeles. Construction of the proposed Project may temporarily alter the on-site drainage patterns at the construction sites, but such alterations would be temporary and limited to the active construction sites. Construction of the proposed Project would not alter the course of a stream or river. During construction, the proposed Project would implement sediment-control BMPs in accordance with the SWPPP to reduce soil erosion or siltation on- or off-site, including through stabilizing temporary stockpiles. These measures would reduce off-site runoff to less than or equal to existing conditions. As such, the proposed Project would not result in substantial erosion or siltation on- or off-site and impacts would be less than significant.

Long-Term Operational Impacts for All Project Components

No Impact. Operations of the proposed Project would not alter the course of a stream or river. Proposed drainage patterns would remain mostly unchanged compared to existing conditions. On-site stormwater would be conveyed to storm drain grated inlets which would drain through the municipal underground storm

system. As such, the proposed Project would not result in substantial erosion or siltation on- or off-site and impacts would be less than significant.

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

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

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. All Project components are within urbanized areas of the cities of Santa Monica and Los Angeles. Construction of the proposed Project may temporarily alter the on-site drainage patterns at the construction sites, but such alterations would be temporary and limited to the active construction sites. Construction of the proposed Project would not alter the course of a stream or river. During construction, the proposed Project would implement BMPs in accordance with the SWPPP to limit stormwater runoff volumes and rates. Impacts would be less than significant.

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed wells for the Olympic Well Field Restoration would be constructed within the existing Olympic Boulevard median and within Ishihara Park. All well completion sites are currently vegetated and pervious. Each well site and associated artistic enclosure structure is anticipated to be approximately 22 feet wide by 40 feet long, or approximately 880 square feet in size. Each well site would be immediately surrounded by pervious grassy surfaces, which is expected to absorb runoff from the site. Additionally, the well sites are located adjacent to existing facilities complete with storm drainage facilities (i.e., Olympic Boulevard and Ishihara Park), which would accommodate the anticipated runoff. All construction projects, including the well completion activities, must be constructed in accordance with the City's Municipal Code requirements, including Chapter 7.10, Runoff Conservation and Sustainable Management, which addresses the City's requirement to minimize potential adverse impacts to receiving waters, through runoff reductions, and LID and Green Infrastructure requirements, as applicable. Best practices at the well sites may include the use of permeable paving materials (e.g. pervious concrete and porous asphalt, pervious concrete and plastic modular and interlocking paving materials) and/or directing rainwater or runoff to permeable areas for infiltration.

The proposed Project would not substantially change the amount of stormwater runoff from the Project site and surrounding area due to the small size of the new impervious areas (approximately 880 square feet). The well completions would result in minor additional amounts of surface runoff due to the new impervious surfaces; however, this runoff would sheetflow into adjacent vegetated areas within the median (or for well 11i to Ishihara Park), and into existing stormwater drainage facilities. Therefore, the proposed Olympic Well Field Restoration would not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site. Impacts would be less than significant.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline alignment is located within existing roadways that are currently impervious, and thus, the post-Project condition would not change the amount of stormwater runoff from the site.

Less-Than-Significant Impact. The proposed Olympic AWTF and Arcadia WTP Expansion would require the removal of up to 0.69-acre of vegetated grassy area with impervious surfaces to accommodate the new facilities. The Project site is approximately 4.8 acres in size; therefore, the proposed Project would result in a potentially 14% increase in impervious surfaces on the Project site. Impervious surfaces result in additional stormwater runoff, which could increase the potential for on-site or off-site flooding.

All construction projects, including the Olympic AWTF and Arcadia WTP Expansion, would be constructed in accordance with the City's Municipal Code requirements, including Chapter 7.10, Runoff Conservation and Sustainable Management, which addresses the City's requirement to minimize potential adverse impacts to receiving waters, through runoff reductions, and LID and Green Infrastructure requirements, as applicable.

According to Section 7.10.090(d) of the SMMC, for any development requiring runoff mitigation volume on a premises equal to or greater than 15,000 square feet, a Runoff Mitigation Plan must be prepared to demonstrate the store and use of 100% of the stormwater quality design volume generated from that development, and such collected rainwater must be used directly, on-site and/or off-site, for allowed non-potable applications, replacing municipal potable water. LID design elements that may be used at the Olympic AWTF and Arcadia WTP Expansion may include, but not be limited to:

(1) Direct rainwater or runoff to rainwater or stormwater harvesting systems (rain barrels or cisterns) for non-potable uses;
(2) Use pervious areas with LID strategies to allow for rainwater or stormwater management or temporary storage for more infiltration of water into the ground through such means as:
    (A) Bio-retention/bio-infiltration,
    (B) Green roofs, green strips, green transportation infrastructure, including parkways and medians. The use of landscaped BMPs to mitigate rainwater or runoff from impervious areas must include the appropriate storage volume for the calculated mitigation volume storage/retention capacity,
    (C) Bio-swales,
    (D) Landscapes (e.g., bio-infiltration). The use of landscapes to mitigate rainwater or runoff from impervious areas must include the appropriate mitigation volume storage/retention capacity,
    (E) Pervious paving materials, such as, but not limited to, pervious concrete and porous asphalt, pervious concrete and plastic modular and interlocking paving materials, and equivalent materials. The use of this BMP to mitigate runoff from impervious areas shall include the appropriate mitigation volume storage/retention capacity;

(3) Direct rainwater or runoff to permeable areas for infiltration through LID strategies. The use of pervious areas to mitigate rainwater or runoff from impervious areas shall include the appropriate stormwater quality design volume storage/retention capacity:

(A) Orient roof rainwater and direct downspouts towards pervious surfaces, infiltration pits (drywells), French drains, or other structural BMPs rather than directly to impervious surfaces, such as driveways and parking lots (unless permeable and with the required storage capacity), so that water is used beneficially and sustainably instead of flowing off-site to the municipal separate storm sewer system,

(B) Grade the parcel to divert flow to pervious areas,

(C) Use retention structures or terrain (e.g., terraces, curbs or berms) to slow rainwater or runoff and retain it on-site,

(D) Remove or design curbs, and berms to direct water from impervious surfaces (e.g., parking lots, unless pervious) to drain to pervious or landscaped areas,

(E) For structures without roof gutters and downspouts, all runoff must fall onto or drain directly or indirectly to pervious areas having proper grading and storage/retention volume for the required mitigation volume, and pose no threat to structural integrity or adjacent structures,

(F) Impervious surface parking lots (with no sub-surface parking) shall have rainwater directed to pervious areas, temporary storage or infiltrating areas, including sunken planters and/or other LID retention or infiltration BMPs. Where surface BMPs mitigate rainwater from impervious areas, they shall include the appropriate storage/retention mitigation volume.

Incorporation of appropriate BMPs would ensure that the proposed Project would not substantially change the amount of stormwater runoff from the Project site and surrounding area. Therefore, the proposed Olympic AWTF and Arcadia WTP Expansion would not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site. Impacts would be less than significant.

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

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

Olympic Well Field Restoration

Less-Than-Significant Impact. As previously discussed, the Project does not increase runoff greater than existing conditions, would improve stormwater quality, and would not exceed the local stormwater capacity. For these reasons, the Project would have less than significant impacts. Refer to Section 3.10(a) above for a discussion of water quality impacts.

Olympic Pipeline

Less-Than-Significant Impact. The proposed Project involves the construction of Olympic Pipeline within existing roadways in the Cities of Santa Monica and Los Angeles. The proposed pipeline would be constructed within existing paved roadways and would not increase impervious areas nor alter on- or off-

site drainage such that increased stormwater flows would occur. Therefore, the proposed Project would not create or contribute to increased runoff, and no impacts would occur.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. As previously discussed, the Project does not increase runoff greater than existing conditions, would improve stormwater quality, and would not exceed the local stormwater capacity. For these reasons, the Project would have less than significant impacts. Refer to Section 3.10(a) above for a discussion of water quality impacts.

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

iv) impede or redirect flood flows?

Impacts for All Project Components

No Impact. The proposed well locations, Olympic Pipeline, and exiting Arcadia WTP are within Zone X of the FEMA Flood Map Service Area (FEMA 2019). Zone X is considered an area of minimal flood hazard (i.e., outside of the 100-year flood zone). As such, implementation of the proposed Project would occur within a flood zone as well as would not divert, impede or redirect flood flows. As a result, no impact would occur.

3.10 d) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?

Impacts for All Project Components

No Impact. As previously discussed, the Project site is in an area of minimal flood hazard and thus has low potential for flooding. In addition, the nearest wellhead, the Olympic Pipeline, and existing Arcadia WTP are approximately 2.1, 2.7, and 3.0 miles from the Pacific Ocean, respectively. Additionally, there are not enclosed bodies of waters, such as lakes or reservoirs nearby (DOC 2019). As such, there is no potential for tsunamis or seiches to affect the Project site As a result, no impacts would occur.

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

Olympic Well Field Restoration

Less-Than-Significant Impact. As previously discussed, the proposed Project would comply with all applicable water quality-regulatory requirements, including the implementation of a SWPPP, stormwater BMPs, and LID design, which would minimize potential off-site surface water quality impacts and contribute to a reduction in water quality impacts within the overall Ballona Creek Watershed and the South Santa Monica Bay Watershed. In addition, with compliance with these regulatory requirements, the Project would reduce potential water quality impairment of surface waters such that existing and potential beneficial uses of key surface water drainages throughout the jurisdiction of the Los Angeles RWQCB Basin Plan would not be adversely impacted. As a result, the Project would not conflict with or obstruct the Los Angeles RWQCB Basin Plan.

With respect to groundwater management, SGMA empowers local agencies to form GSAs to manage basins sustainability and requires those GSA to adopt GSPs for crucial groundwater basins in California. A GSP is currently being established for the Santa Monica Basin as it was considered to a medium-priority basin. Furthermore, the Project would not substantially deplete these groundwater supplies or interfere substantially with groundwater recharge. As a result, the Project would not conflict with or obstruct any groundwater management plans, and impacts would be considered less than significant.

Olympic Pipeline

Less-Than-Significant Impact. The Project would comply with all applicable water quality-regulatory requirements, including the implementation of a SWPPP, stormwater BMPs, and LID design, which would minimize potential off-site surface water quality impacts and contribute to a reduction in water quality impacts within the overall Ballona Creek Watershed and the South Santa Monica Bay Watershed. In addition, with compliance with these regulatory requirements, the Project would reduce potential water quality impairment of surface waters such that existing and potential beneficial uses of key surface water drainages throughout the jurisdiction of the Los Angeles RWQCB Basin Plan would not be adversely impacted. As a result, the Project would not conflict with or obstruct the Los Angeles RWQCB Basin Plan.

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Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. As previously discussed, the proposed Project would comply with all applicable water quality-regulatory requirements, including the implementation of a SWPPP, stormwater BMPs, and LID design, which would minimize potential off-site surface water quality impacts and contribute to a reduction in water quality impacts within the overall Ballona Creek Watershed and the South Santa Monica Bay Watershed. In addition, with compliance with these regulatory requirements, the Project would reduce potential water quality impairment of surface waters such that existing and potential beneficial uses of key surface water drainages throughout the jurisdiction of the Los Angeles RWQCB Basin Plan would not be adversely impacted. As a result, the Project would not conflict with or obstruct the Los Angeles RWQCB Basin Plan.

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3.11 Land Use and Planning

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. LAND USE AND PLANNING – Would the project:				
a) Physically divide an established community?	☐	☐	☒	☐
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

Existing Setting

Olympic Well Field Restoration

The proposed groundwater production wells SM-8 and SM-9, and the proposed groundwater injection well SM-10i are within the City of Santa Monica's public right-of-way median of Olympic Boulevard. The existing median separates the two-lane Olympic Boulevard. SM11i is located within Ishihara Park. The proposed recycled water pipeline would be constructed within existing roadways (Exposition Boulevard and Stewart Street). Therefore, they are not located within a specific parcel or located at a specific street address. The wellfield and surrounding area is located with the Bergamot Area Plan (City of Santa Monica 2019c). The uses surrounding the wellfield includes a mix of office, commercial, rail, and arts.

Olympic Pipeline

The proposed Olympic Pipeline would be constructed within existing roadways that are within the City of Santa Monica and City of Los Angeles. The Olympic Pipeline is located within several streets including Berkeley Avenue, Nebraska Avenue, Colorado Avenue, Arizona Avenue, Centinela Avenue, Texas Avenue, and Saltair Avenue. Additionally, there is the option for an alternative alignment via Bundy Drive. The surrounding areas are zoned Conservation: Creative Sector, Low-Density Residential, and Mixed-Use Boulevard Low in the City of Santa Monica and Multi-Family Medium and Public Facility in the City of Los Angeles.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is zoned [Q]PF-1XL (Qualified Public Facilities in Height District 1, Extra Limited), with a General Plan land use designation of "Public Facilities". The adjacent property that would be used for staging includes APNs 426-300-3271, -3272, and -3273, which total 10,556 square feet (0.24-acre) and are zoned [Q]C2-1L-CDO (Qualified Commercial in Height District 1, Limited) within the West Wilshire Boulevard Community Design Overlay (CDO), with a General Plan land use designation of "Community Commercial".

Impact Analysis

3.11 a) Would the project physically divide an established community?

Olympic Well Field Restoration

No Impact. The physical division of an established community typically refers to the construction of a linear feature (such as a major highway or railroad tracks) or removal of a means of access (such as a local road or bridge) that would impair mobility within an existing community or between a community and outlying area. Under the existing condition, the proposed well locations for SM8, 9, and 10i would be located within the existing Olympic Boulevard median. SM11i would be located within existing Ishihara Park. The proposed recycled water pipeline would be constructed within existing roadways (Exposition Boulevard and Stewart Street). No new physical separation of communities would occur as a result of the proposed wells, as the existing land use patterns in the area would be maintained. Therefore, no impacts associated with physical division of an established community would occur.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline would be located entirely underground; therefore, the pipeline would not physically divide an established community and there would be no impact.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The proposed Olympic AWTF and Arcadia WTP Expansion would be co-located at the existing Arcadia WTP. The proposed Project would not divide an established community. Rather, the proposed Olympic AWTF and Arcadia WTP Expansion would occur within an existing public facility owned and operated by the City of Santa Monica. Therefore, impacts associated with the physically division of an established community would be less than significant.

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

All Project Components

Less-Than-Significant Impact. The Project involves constructing the Olympic Pipeline from the Olympic Well Field to the Arcadia WTP in order to separate Olympic Well Field contaminated groundwater from the Charnock Well Field groundwater for separate treatment at the Arcadia WTP. The City's relevant Planning Documents include the LUCE and the Bergamot Area Plan, which both consider future population growth to ensure sufficient capacity. Additionally, the City's SWMP, Climate Action and Adaptation Plan, and Sustainable City Plan are relevant to the proposed Project. The Arcadia WTP portion of the Project is located within the City of Los Angeles boundaries but is owned and operated by the City of Santa Monica. Because the proposed Project involves upgrades and expansions to the existing Arcadia WTP, the proposed use is consistent with the City of Los Angeles' Public Facilities designation. As previously discussed in Section 3.1(c), the building ordinances of the City of Los Angeles would not apply to the construction of facilities for the treatment of water as proposed by the City of Santa Monica. Further, as discussed in Section 2.7, the appropriate permits and approvals would be obtained from the City of Los Angeles to ensure the proposed Project complies with applicable plans, policies, and regulations.

The proposed wells, SM-8, SM-9, and SM-10i, associated with the Olympic Well Field, as well as the proposed pipelines that would connect the wells, are all entirely located within the Olympic Boulevard right-of-way. The proposed recycled water pipeline would be constructed within existing roadways (Exposition Boulevard and Stewart Street). As such, there are no associated land use designations. SM-11i is within Ishihara Park and is designated as Mixed-Use Creative. Although there is no land use designation for SM-8, SM-9, and SM-10i, the existing median on Olympic Boulevard is recognized as an important open space resource in the BAP (City of Santa Monica 2013). Construction impacts associated with the wells would be short-term and as discussed within this IS/MND would not significant impacts upon implementation of mitigation measures. Once the completed, the wells would contain piping aboveground as depicted in Figure 2C, and would be enclosed in an above-ground artistic fencing structure. Figure 8, Representative Production Well Site, includes a rendering of typical aboveground well structure that would be construction at the proposed well sites. Further, these installations would be consistent with the BAP's plan for "major public art installations in visible locations throughout the Plan area, such as the Olympic Boulevard median" (City of Santa Monica 2013). The well enclosures would be designed by City commissioned artist to comply with BAP. The proposed Olympic Pipeline would be located belowground and would not conflict with current land policies, programs, or regulations. Therefore, the proposed uses associated with the Project would not with the land use and zoning designations.

Additionally, the proposed Project has been set forth as part of the City's goal to increase water self-sufficiency through strategies identified in the SWMP. The SWMP has identified expanding local groundwater production as one of the key components to maximize local water resources and reduce reliance on costly imported water. Currently, the Olympic Well Field generally produces between 1,000 acre-feet/yr and 1,600 acre-feet/yr. However, the Olympic Well Field contains several contaminants that would require additional treatment to meet drinking water standards. The proposed Project would restore the Olympic Well Field to full production capacity through groundwater well improvements, a new dedicated pipeline that would separate groundwater from the Olympic Well Field and eliminate comingling from other groundwater well fields, and a new Olympic AWTF that would be co-located at the existing Arcadia WTP. The proposed Project would maximize production at the Olympic Well Field, which would be consistent with the SWMP's intent to expand local groundwater production and aid the City in its goal to achieve increased water self-sufficiency. Therefore, the proposed Project is consistent with the City's SWMP.

Further, as discussed previously, the City of Santa Monica adopted its Sustainable City Plan in September 1994 (most recently updated in January 2014), which is a long-term plan to reduce GHG emissions from municipal operations and community activities within the City, and would also help Santa Monica become a more "sustainable" city. Table 3.8-3, provided in Section 3.8, Greenhouse Gas Emissions, provides an overview of applicable goals within the Sustainable City Plan and the Project's consistency with it. The Project aims to enhance sustainability of the City of Santa Monica's water supply through developing alternative water supplies and expanding local groundwater supplies to eliminate reliance on purchase of imported water supplies. Accordingly, an objective of the Project is to conserve resources. As shown in Table 3.8-3, the Project does not conflict with any of the GHG-reducing measures or goals within the Sustainable City Plan and thus, is consistent with this plan. Additionally, Table 3.8-4 provided in Section 3.8, Greenhouse Gas Emissions, provides the Project's consistency with the City's CAAP. The operational emissions and amortized construction emissions is estimated to be 2,834 MT CO2 per year. When considering the avoided GHG emissions associated with replacing imported water with local groundwater (3,654 MT CO2 per year), net Project-generated emissions are negative resulting in a potential GHG

emissions benefit. As shown in Table 3.8-4, the Project does not conflict with any of the GHG-reducing measures of the CAAP and thus, is consistent with this plan.

For these reasons, the project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Impacts would be less than significant.

3.12 Mineral Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

Existing Setting

Olympic Well Field Restoration

The California Geologic Energy Management Division is responsible for monitoring the drilling, operation, maintenance, and abandonment of oil, gas, and geothermal wells with the intention of environmental protection, public health and safety, and general environmental conservation methods. There are no wells located on the Project site (CalGEM 2020).

DOC, Division of Mines and Geology, mapped mineral resource zones within Los Angeles County. According to DOC's Mineral Lands Classification Map, the proposed well locations and recycled water pipeline are not located within an area with known mineral resources. The Project site is designated as Mineral Resources Zone (MRZ)-1, an area where adequate information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence (DOC 1979).

Olympic Pipeline

There are no wells located on the Project site (CalGEM 2020). Additionally, the proposed Olympic Pipeline is designated as MRZ-1, an area where adequate information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence (DOC 1979).

Olympic AWTF and Arcadia WTP Expansion

There are no wells located on the Project site (CalGEM 2020). Additionally, the location for the Olympic AWTF and Arcadia WTP Expansion is designated as MRZ-1, an area where adequate information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence (DOC 1979).

Impact Analysis

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

Olympic Well Field Restoration

No Impact. The proposed well and recycled water pipeline locations are identified as MRZ-1, which is defined as areas where no significant construction aggregate deposits are present, or where it is judged that little likelihood exists for their presence (DOC 1979). Therefore, the proposed Project would not result in the loss of known mineral resources and there would be no impact.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline alignment is within an area identified as MRZ-1, which is defined as areas that have no significant construction aggregate deposits are present, or where it is judged that little likelihood exists for their presence (DOC 1979). Therefore, the proposed Project would not result in the loss of known mineral resources and there would be no impact.

Olympic AWTF and Arcadia WTP Expansion

No Impact. The location of the existing Arcadia WTP identified as MRZ-1, which is used to define areas where adequate information indicates that no significant construction aggregate deposits are present, or where it is judged that little likelihood exists for their presence (DOC 1979). Therefore, the proposed Project would not result in the loss of known mineral resources and there would be no impact.

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

Olympic Well Field Restoration

No Impact. According to the City of Santa Monica's Conservation Element, the only mineral activity in the past has been the removal of sand from the beaches for construction and other purposes. No other mineral exploration or mining has occurred or is expected (City of Santa Monica 1975). In addition, there are no known mineral resources located within the proposed well locations and surrounding area (DOC 1979). Therefore, no impacts associated with loss of availability of a known mineral resource would occur.

Olympic Pipeline

City of Santa Monica

No Impact. As discussed above, no mineral extraction occurs within the City. Additionally, the Project site is not designated as an existing mineral extraction area by the State (DOC 1979). Therefore, the proposed Olympic Pipeline would not result in the loss of a mineral resource recovery site, and no impacts would occur.

City of Los Angeles

No Impact. Per the City of Los Angeles guidance, a significant impact would occur if the Project site were located within a MRZ-2 area or potential mineral resource area. As discussed above, the proposed Olympic Pipeline within the City of Los Angeles is not located within a known mineral resource area. Therefore, no impacts associated with the loss of availability of a known mineral resources would occur,

Olympic AWTF and Arcadia WTP Expansion

No Impact. Per the City of Los Angeles guidance, a significant impact would occur if the Project site were located within a MRZ-2 area or potential mineral resource area. As discussed above, the location of the existing Arcadia WTP within the City of Los Angeles is not located within a known mineral resource area. Therefore, no impact associated with loss of availability of a locally important mineral resource recovery site would occur.

3.13 Noise

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☒	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☒	☐

Existing Setting

Olympic Well Field Restoration

SM-8, SM-9, and SM-10i are located between 26th Avenue and Centinela Avenue within the Olympic Boulevard median. Surrounding land uses includes a mix of office, commercial, the Metro Light Rail E Line alignment and Bergamot Station, and the 26th Street Arts Center. SM-11i and the proposed recycled water pipeline are within Ishihara Park and within the existing roadway, respectively. The surrounding land uses include single family residential, open space, and industrial. The following describes the land uses in the immediate vicinity of each of the four proposed well locations and the recycled water pipeline:

- Well SM-10i: To the north of Olympic Boulevard is an existing office park with several 6-story office buildings and landscaping. To the east, across the intersection of Olympic Boulevard and 26th Avenue, are additional office buildings to the north and the Bergamot Station Metro station to the south. To the south and west of well SM-10i is the Metro Light Rail E Line and further south is an Extra Space storage building with an associated surface parking lot.
- Well SM-8: To the north of Olympic Boulevard is an office space for a media and production company with an associated surface parking lot that is screened by vegetation. To the east, across the intersection of Olympic Boulevard and Stewart Street, is a single-story office building to the north and the Lantana Media Campus, a flexible long-term and short-term leasing space, is to the south. To the south is a two-story office structure for XYZ, an IT Media company, and Metro Light Rail E Line. Further, south are art gallery spaces. There are not distinct uses to the west besides the continuing median and Olympic Boulevard until 26th Street.
- Well SM-9: To the north of Olympic Boulevard is Media Park Santa Monica, a commercial property with three commercial office buildings. To the east, across the intersection of Olympic Boulevard and Centinela Avenue are several single-story commercial structures. Across Centinela Avenue, uses are within the City of Los Angeles corporate boundary. To the south of Olympic Boulevard, there is an Extra Space storage building, a single-story commercial building, and a three-story commercial building. To the west, there are commercial office spaces and the median continues west until Stewart Street.
- Well SM-11i: To the north of Ishihara Park is Metro Division 14 Operations and Maintenance Facility, a train yard inclusive of a two-story in height building and associated surface parking lot, which extends the entire length of Ishihara Park along Exposition Boulevard towards the east. To the south and west across Exposition Boulevard and Dorchester Avenue, respectively, are single-family residential uses.
- Recycled Water Pipeline: To the north of Exposition Boulevard is Ishihara Park, and to the south are single family residential uses. To the west of Stewart Street and Exposition Boulevard is the Santa Monica City Yards, Gandara Park, and Bergamot Station. The east of Stewart Street and south of Exposition Boulevard are single family residential uses.

Represented by locations Olympic #3 and Olympic #4 in Table 3.13-1, the existing outdoor ambient sound environment of these above-listed areas was measured during a field survey conducted on October 1, 2019. Collected sample sound pressure level (SPL) measurements at these locations, along with documented investigator observations regarding perceived or witnessed acoustical contributors to this baseline or pre-Project noise environment, appear in Table 3.13-1.

Table 3.13-1. Measured Existing Outdoor Ambient Sound Levels

Receptor	Location/Address	Time (hh:mm)	L_{eq} (dBA)	L_{max} (dBA)	L_{90} (dBA)	Notes (observed sound sources)
Arcadia Property Line #1	along Bundy Drive, north of Texas Avenue	09:24 a.m. – 09:39 a.m.	76.2	89.9	65.4	Distant traffic, nearby traffic on Bundy Drive
Arcadia Property Line #2	along Saltair Avenue, north of Texas Avenue	09:50 a.m. – 10:05 a.m.	61.9	76.9	59.0	Distant traffic, nearby traffic on Saltair Avenue, consistent hum from plant
Arcadia Property Line #3	along Texas Avenue	10:12 a.m. – 10:28 a.m.	62.2	77.7	55.4	Distant traffic, nearby traffic on Texas Avenue
Arcadia Property Line #4	northern property line (along alley)	10:34 a.m. – 10:49 a.m.	67.1	74.0	65.0	Distant traffic, consistent hum from plant, pumps, metallic rattling noise
Olympic #1	1628 Wellesley Avenue (residential)	11:22 a.m. – 11:37 a.m.	56.3	69.6	51.4	Light traffic on Idaho Avenue, gardening noise, occasional aircraft flyover
Olympic #2	1728 Wellesley Avenue (residential)	11:45 a.m. – 12:00 p.m.	58.2	80.5	51.4	Distant traffic, occasional aircraft flyover
Olympic #3	3131 Olympic Boulevard (New Roads School)	12:20 p.m. – 12:35 p.m.	77.6	87.4	62.9	Nearby traffic on Olympic Boulevard
Olympic #4	On median, east of Stewart (near 3000 Olympic Boulevard)	12:53 p.m. – 01:07 p.m.	77.5	85.3	64.3	Nearby traffic on Olympic Boulevard, constant hum from subsurface well vault

Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); L_{max} = maximum sound level during the measurement interval; L_{90} = sound pressure level exceeded 90% of the measured time period; dBA = A-weighted decibels.

Olympic Pipeline

City of Santa Monica

Described in more detail under Section 2 of this MND, the vicinities of the proposed alignment within the City of Santa Monica boundary can be summarized as follows:

- Berkeley Avenue (from Nebraska Avenue to Colorado Avenue): Near Berkeley Avenue and Nebraska Avenue, there are several single-story commercial buildings located to the east and west of Berkeley Avenue. At the Berkeley Avenue and Pennsylvania Avenue intersection, the land uses transition from commercial to single- and multi-family residential uses. Zone = Conservation: Creative Sector; Low-Density Residential
- Colorado Avenue: To the north and south of Colorado Avenue and Berkeley Avenue are single- and multi-family residential uses. Additionally, there is a religious facility on the southeast corner of Colorado Avenue and Berkeley Avenue. Zone = Low-Density Residential
- Berkeley Avenue (from Colorado Avenue to Arizona Avenue): The land uses to the east and west of Berkeley Avenue are single- and multi-family residential uses from Colorado Avenue to Santa Monica Boulevard. At the Santa Monica Boulevard intersection, there is a multi-family residential complex to the northwest, a restaurant and retail uses to the northeast, a liquor store and restaurant to the southeast, and a car dealership to the southwest. From Santa Monica Boulevard to Arizona Avenue the land uses return to single- and multi-family residential uses. Zone = Low-Density Residential; Mixed-Use Boulevard Low
- Arizona Avenue (from Berkeley Avenue to Centinela Avenue): To the north and south of Arizona Avenue are single- and multi-family residential uses. There is a religious facility at the northwest corner of Arizona Avenue and Centinela Avenue. Zone = Low-Density Residential

City of Los Angeles

Described in more detail under Section 2 of this MND, the vicinities of the proposed alignment within the City of Los Angeles boundary can be summarized as follows:

- Texas Avenue (from Centinela Avenue to Saltair Avenue): To the north and south of Texas Avenue are primarily multi-family residential uses. There are a few single-family residential uses. Zone = Multi-Family Medium
- Saltair Avenue: To the west is the Arcadia WTP. To the east and south are multi-family residential uses. Zone = Multi-Family Medium; Public Facility

The existing outdoor ambient sound environment of these above-listed pipeline areas is represented by measurement locations Olympic #1 and Olympic #2 in Table 3.13-1.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is located within the West Los Angeles Community Plan in the City of Los Angeles. The areas surrounding the Arcadia WTP are designated as Multi-Family Medium and Community Commercial in the West Los Angeles Community Plan. The streets surrounding the Arcadia WTP include Wilshire Boulevard to the north, Bundy Drive to the west, Texas Avenue to the south, and Saltair Avenue to the east. The land uses surrounding the Arcadia WTP include single- and multi-family residential and commercial uses as follows:

- To the north of Arcadia WTP, across an existing alley, is an existing restaurant, retail shops, an office building, a six-story residential building, and a City of Santa Monica-owned lot on the southeast corner of Wilshire Boulevard and Bundy Drive.
- To the west, across Bundy Drive, is a 20-story office building and several multi-family residential buildings.
- To the south of the Arcadia WTP are two single-family buildings. For purposes of construction and operation noise and vibration analysis, these two on site residences will be assessed for potential significant impact with respect to City of Santa Monica regulations.
- To the south, across Texas Avenue, there are single- and multi-family residential buildings. To the east, across Saltair Avenue there are several multi-family residential buildings, and there is a commercial/retail building at the southeast corner of Wilshire Boulevard and Saltair Avenue.

The existing outdoor ambient sound environment of these above-listed areas near the Arcadia WTP site is represented by measurement locations Arcadia Property Line #1, #2, #3, and #4 in Table 3.13-1.

All Project Components

Assumptions

The following construction noise impact assessment and mitigation measures require the following conditions to be true:

- Noise emission from construction equipment operating under full power, with proper noise control features installed, yield reference L_{max} noise levels at a reference distance of 50 feet that do not exceed the "Spec. 721.560 L_{max}" dBA values or the "Actual Measured L_{max}", whichever is lower, from Table 1 of the Federal Highway Administration (FHWA) *Roadway Construction Noise Model* (RCNM) *User's Guide* (FHWA 2006).
- The cumulative duration of expected full-power operation for construction equipment over any 15-minute period of time, expressed as a fraction of that period, must not (unless otherwise noted) exceed the "acoustical usage factor" (AUF) values as listed in Table 1 of the aforementioned RCNM *User's Guide*. These percentage values represent the cumulative portion of time during which equipment is operating at full power, and are used to derive an L_{eq} value from the reference L_{max} value at 50 feet based on the following expression: $L_{eq} = L_{max} - 10*LOG(AUF)$, where AUF ranges from 0 to 1). This is consistent with the Federal Transportation Authority (FTA) construction noise assessment technique.
- For the Olympic Pipeline construction activity, the following construction equipment is anticipated for each distinct listed phase:
  - Site Preparation – paver
  - Installation – excavator, dump truck, roller
  - Slurry Backfill – concrete mixer truck

  - Continual and Final Paving – paver, roller
  - Continual Pavement Striping – flat-bed truck
  - Final Paving – paver, roller, pavement scarifier (or comparable feature in milling machine)
- For the Recycle Water Pipeline construction activity, the following construction equipment is anticipated for each distinct listed phase:
  - Site Preparation – paver
  - Installation – up to two (2) excavators, one roller
  - Slurry Backfill – concrete mixer truck
  - Continual and Final Paving – paver, roller
  - Final Paving – paver, roller, pavement scarifier (or comparable feature in milling machine)

The predictions assume equipment usage would be sequential and not concurrent, unless multiple pieces of operating equipment are sufficiently distant from one another and a receptor. For example, the analysis assumes that an excavator and a roller would not be operating simultaneously at the same distance to a given receptor location. When the excavator is operating, it must have an L_{max} of 79 dBA (2 decibels [dB] less than the reference value, reflecting additional on-board noise control [e.g., better exhaust treatment]); or, have an AUF no more than 25%. When a milling machine is operating (in particular, the component comparable to a pavement scarifier), it must have an L_{max} of 79 dBA (6 dB less than the reference value, reflecting additional on-board noise control [e.g., better exhaust treatment]); or, have an AUF no more than 10%.

- For the Olympic AWTF and Arcadia WTP Expansion, the following construction equipment is anticipated for each distinct listed phase:
  - Demolition – concrete saw, dozer, backhoe
  - Site Preparation and Grading – grader, dozer, backhoe
  - Building Construction 1 – forklift (man lift), crane, generator (<25kVA), backhoe
  - Building Construction 2 – man lift, crane, gradall (rough-terrain forklift)
  - Building Construction 3 – generator (<25kVA), backhoe
  - Building Construction 4 – crane, gradall (rough-terrain forklift)
  - Building Construction 5 – gradall (rough-terrain forklift)
  - Building Construction 6 – man lift, crane, gradall (rough-terrain forklift), excavator, drill rig truck (bore/drill rig)
  - Building Construction 7 – man lift, crane, gradall (rough-terrain forklift)
  - Architectural Coating – compressor (air)
  - Paving – paver, roller

Based on predictions, the noisiest of these above phases is Demolition, during which time equipment usage would be sequential and not concurrent, unless multiple pieces of operating equipment are sufficiently distant from a receptor. When the concrete saw is operating, it must feature 8 dBA of sound attenuation (i.e., quieter rotating blade, portable shroud) to reduce its full-power noise level from 90 dBA to 82 dBA, and still operate with an AUF of no more than 20% (per the FHWA RCNM *User's Guide*).

For any phase, when a dozer is operating, it must have an L_{max} of 79 dBA (3 dB less than the reference value, reflecting additional on-board noise control [e.g., better exhaust treatment]); or, have an AUF no more than 20%.

When a gradall (all-terrain forklift) is operating, it must have an L_{max} of 79 dBA (4 dB less than the reference value, reflecting additional on-board noise control [e.g., better exhaust treatment]); or, have an AUF no more than 17%. When a grader is operating, it must have an L_{max} of 79 dBA (6 dB less than the reference value, reflecting additional on-board noise control [e.g., better exhaust treatment]); or, have an AUF no more than 10%. When an excavator is operating, it must have an L_{max} of 79 dBA (2 dB less than the reference value, reflecting additional on-board noise control [e.g., better exhaust treatment]); or, have an AUF no more than 25%.

Impact Analysis

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

Olympic Well Field Restoration

Construction

Less-Than-Significant Impact With Mitigation Incorporated. SMMC Section 4.12.110(a) permits construction activity from 8:00 a.m. to 6:00 p.m. on weekdays (Monday to Friday) and 9:00 a.m. to 5:00 p.m. on Saturdays. SMMC 4.12.110(b)(1) permits the noise levels from construction activities, at the receiving location, during these allowable timeframes to be 20 dB louder than the usual standard for the Noise Zone (I [residential], II [commercial], III [industrial]) as defined by SMMC Section 4.12.060(a). While construction noise limits per SMMC Section 4.12.110(b)(2) apply, which allows a maximum instantaneous A-weighted, slow sound pressure level to exceed the decibel limits by 40 dBA for any period of time, and have been used as appropriate herein for the noise assessment, SMMC Section 4.12.110(d) does permit construction noise to exceed these limits but only for a limited duration: 'between the hours of ten a.m. and three p.m., Monday through Friday'. Additionally, per SMMC Section 4.12.110, "a permit may be issued authorizing construction activity during the times prohibited by this Section whenever it is found to be in the public interest. The person obtaining the permit shall provide notification to persons occupying property within a perimeter of five hundred feet of the site of the proposed construction activity prior to commencing work pursuant to the permit." Since the new wells are proposed to be installed near low-density housing or commercial/mixed-use areas, the allowable construction noise limits would depend on the receptor location and be as follows:

- For Noise Zone II (commercial or mixed-use): 85 dBA L_{eq} (i.e., 65 dBA [for Noise Zone II, 7:00 a.m. to 10:00 p.m.] + 20 dB = 85 dBA) for any 15-minute period during allowable daytime hours; and,
- For Noise Zone I (low-density housing):
  - Monday through Friday -- 80 dBA L_{eq} (i.e., 60 dBA [for Noise Zone I, 7:00 a.m. to 10:00 p.m.] + 20 dB = 80 dBA) for any 15-minute period during allowable daytime hours
  - Saturday -- 80 dBA L_{eq} (i.e., 60 dBA [for Noise Zone I, 8:00 a.m. to 10:00 p.m.] + 20 dB = 80 dBA) for any 15-minute period during allowable daytime hours

With the edge of the construction area for each of the four new well installation sites being at least 50 feet from the nearest receiving land use, and as the detailed predictions in Appendix D, Noise Modeling Data, show for each anticipated phase, predicted noise associated with preparing concrete pads for the new wells and installing equipment is expected to be compliant with the 80 dBA limit value. Therefore, construction noise impacts at SM-10i, SM-9, SM-9, and SM-11i would be less than significant.

However, for the recycled water pipeline component of the Project connecting SM-11i to the Santa Monica City Yards, the applicable threshold would be 80 dBA 15-minute L_{eq} value at nearby existing residences on the southern side of Exposition Boulevard between Stewart Street and Dorchester Avenue. Pipeline installation along Exposition Boulevard could create temporary noise at levels anticipated to be either compliant with the 80 dBA L_{eq} 15-minute limit or require a degree of noise mitigation. Please refer to Appendix D for details on pipeline construction noise prediction. Given the potential for the construction of the proposed recycled water pipeline to exceed construction noise limits pursuant to SMMC Section 4.12.110, impacts are potentially significant and mitigation is required.

MM-NOI-1 The City of Santa Monica shall ensure that the construction contractor(s) contract specifications for all Project-related activities at the Olympic Well Field (including the recycled water pipeline), Olympic Pipeline, and Arcadia Water Treatment Plant include the following requirements during construction activities:

- Construction hours must be conducted in compliance with the applicable local regulations for the project component within each jurisdiction with respect to allowable timeframes and days of the week (including weekends and holidays). Noise from construction activities in the City of Santa Monica shall meet the standard of 80 or 85 dBA L_{eq} over any 15-minute period, depending on the SMMC 4.12.060 Noise Zone. Noise from any operating powered equipment associated with the construction activities in the City of Los Angeles shall meet the standard of 75 dBA L_{eq} at 50 feet over any 15-minute period.
- Construction-related activities during nighttime hours (as defined by local regulation) would require a permit pursuant to Santa Monica Municipal Code Section 4.12.110 and/or would require permission from the Executive Director on behalf of the Board of Police Commissioners pursuant to Los Angeles Municipal Code Section 41.40(b).
- All idling (i.e., engines running) equipment shall be kept to a minimum.
- The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be used for safety warning purposes only.
- Communication with local residents shall be maintained prior to and during construction. Specifically, the local residents shall be informed of the schedule, duration, and progress of the construction and shall be provided contact information (e.g., a telephone hotline and/or email address) for noise- or vibration-related complaints. The City shall establish a process to investigate these complaints in a timely manner and, if determined to be valid, detail efforts to provide a timely resolution and response to the complainant—with copy of outcome description documented in a log for the duration of the construction activities.
- All noise-producing equipment and vehicles using internal combustion engines shall be equipped with exhaust mufflers (or comparable noise-reducing exhaust flow treatments); air-inlet silencers; and, hoods, shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specifications. Mobile or fixed "package" equipment (e.g., arc-welders, air compressors, generators, etc.) shall be equipped with shrouds and noise control features that are readily available for that type of equipment.
- Usage of construction equipment shall be properly phased, scheduled, and positioned, so that no combination of concurrently operating equipment would cause an exceedance of the noise limit at a receptor location.

In addition to the measures listed above, site-specific requirements for activities for the Arcadia WTP also include:

- Concrete saws anticipated for demolition of existing on-site features (buildings, pavement, concrete slabs, etc.) shall feature commercially-available low-noise blades and portable exterior shrouds (e.g., temporary sound blankets or comparable barriers or enclosures) that can move with the equipment so as to consistently control noise emission from the operating equipment and its impact on the work surface and thereby meet the aforementioned noise limit.

Construction of the recycled water pipeline within the City of Santa Monica would be considered less than significant with implementation of mitigation MM-NOI-1.

Operation

Less-Than-Significant Impact. Per SMMC 4.12.060 (a), Santa Monica's nighttime noise limit for "Noise Zone II" commercial districts is 60 dBA L_{eq} for a 15-minute continuous period during nighttime hours. The actual zoning of land uses in the vicinity of the proposed SM-8, SM-9, and SM-10i include "Mixed Use Creative" (MUC), "Bergamot Transit Village" (BTV), and "Conservation Art Center" (CAC). Near proposed SM-11i, to be located in Ishihara Park that abuts Exposition Boulevard, and the proposed recycled water pipeline along Exposition Boulevard and a portion of Stewart Street, are existing homes within a "low density housing" zone that would be considered a type I noise zone within which 50 dBA L_{eq} (over a 15-minute period) would apply during nighttime hours. Because the new pumps may operate during all hours, day and night, higher noise limits during daytime hours within the Noise Zone I and II areas are conservatively ignored for the purposes of this analysis.

Measured SPL from a comparably featured existing operating well in the Olympic Well Field serves as a reference sound source for each of the anticipated future noise emissions from newly added Olympic Well Field Injection Well (SM-10i), SM-8, and SM-9 pumps. Predicted sound propagation from their anticipated operation (see Appendix D for details) are below 60 dBA L_{eq} where the Olympic Boulevard right-of-way abuts the commercially-zoned properties; and, would thus be compliant with the Santa Monica nighttime sound level threshold. Operation of SM-11i would be predicted to yield a noise level at existing residences along Exposition Boulevard that is compliant with the more stringent 50 dBA Leq limit. Please refer to Appendix D for details of the operation noise prediction, which includes a colorized illustration of predicted sound propagation from each of these proposed new operating pumps and their above-surface surroundings. Operation of the proposed recycled water pipeline would be subsurface and thus not expected to result in perceptible airborne noise levels to the surrounding community Therefore, operational noise impacts associated with the Olympic well Field Restoration component of the Project would be less than significant.

Olympic Pipeline

City of Santa Monica

Construction

Less-Than-Significant Impact With Mitigation Incorporated. Where the proposed pipeline traverses land within the jurisdiction of the City of Santa Monica, SMMC Section 4.12.110 permits construction noise to be 20 dB louder than the usual standard for the Noise Zone (I [residential], II [commercial], III [industrial])

as defined by SMMC Section 4.12.060(a). Additionally, per SMMC Section 4.12.110, "a permit may be issued authorizing construction activity during the times prohibited by this Section whenever it is found to be in the public interest. The person obtaining the permit shall provide notification to persons occupying property within a perimeter of five hundred feet of the site of the proposed construction activity prior to commencing work pursuant to the permit." Since some of the new pipeline segments are proposed to be installed within commercial areas, the allowable construction noise limit would be 85 dBA L_{eq} for any 15-minute period during allowable daytime hours as described by SMMC Section 4.12.110. Other portions of the alignment are near residential land uses, which means the applicable threshold would be a more stringent 80 dBA 15-minute L_{eq} value. Pipeline installation along Olympic Boulevard could create temporary noise at levels anticipated to be either compliant with the 80 dBA L_{eq} 15-minute limit or require a degree of noise mitigation. Please refer to the afore-described MM-NOI-1, and Appendix D for details on pipeline construction noise prediction. Given the potential for the construction of the proposed Olympic Pipeline to exceed construction noise limits pursuant to SMMC Section 4.12.110, impacts are potentially significant and mitigation is required.

Pipeline construction within the City of Santa Monica would be considered less than significant with implementation of mitigation MM-NOI-1.

Operation

Less-Than-Significant Impact. Normal operation of the proposed Olympic Pipeline would be subsurface and thus not expected to result in perceptible airborne noise levels to the surrounding community. Noise emission from inspection and maintenance activities required to ensure function of this public utility would be infrequent, temporary in nature, and thus not considered a significant impact. Therefore, operations of the proposed Olympic Pipeline in the City of Santa Monica would be less than significant.

Olympic Pipeline

City of Los Angeles

As previously discussed in Section 3.1(c), per §53091(d) of the California Government Code, building ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water, wastewater, or electrical energy by a local agency. Therefore, the building ordinances of the City of Los Angeles would not apply to the construction of facilities for the treatment of water as proposed by the City of Santa Monica. However, potential noise impacts to sensitive receptors within the City of Los Angeles jurisdiction have been analyzed herein.

Construction

Less-Than-Significant Impact With Mitigation Incorporated. Los Angeles Municipal Code 112.05 (a) prohibits construction equipment noise louder than 75 dBA at 50 feet, but this requirement:

> "shall not apply where compliance therewith is technically infeasible. The burden of proving that compliance is technically infeasible shall be upon the person or persons charged with a violation of this section. Technical infeasibility shall mean that said noise limitations cannot be complied with despite the use of mufflers, shields, sound barriers and/or other noise reduction device or techniques during the operation of the equipment."

LAMC 41.40 (a) prohibits construction work between 9:00 p.m. and 7:00 a.m. However, per LAMC 41.40(b), the Executive Director on behalf of the Board of Police Commissioners may grant permission for construction, repair or excavation work that benefits the public interest to occur within the hours from 9:00 p.m. to 7:00 a.m.

There is the potential for temporary noise from operating construction equipment and processes to cause an increase in outdoor noise level at nearby noise-sensitive receivers along the pipeline alignment. Please refer to Appendix D for details on pipeline construction noise prediction. To minimize these effects and mitigate potentially significant impact with respect to exceedance of LAMC 112.05, on-site construction activities should implement mitigation measure MM-NOI-1. With implementation of mitigation MM-NOI-1, the proposed Project would be considered less than significant.

Operation

Less-Than-Significant Impact. Normal operation of the pipeline would be subsurface and thus not expected to result in perceptible airborne noise levels to the surrounding community. Noise emission from inspection and maintenance activities required to ensure function of this public utility would be infrequent, temporary in nature, and thus not considered a significant impact. Therefore, pipeline operation for the proposed Project would be considered less than significant.

Olympic AWTF and Arcadia WTP Expansion

As previously discussed in Section 3.1(c), per §53091(d) of the California Government Code, building ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water, wastewater, or electrical energy by a local agency. Therefore, the building ordinances of the City of Los Angeles would not apply to the construction of facilities for the treatment of water as proposed by the City of Santa Monica. However, potential noise impacts to sensitive receptors within the City of Los Angeles jurisdiction have been analyzed herein.

Construction

Less-Than-Significant Impact With Mitigation Incorporated. As previously mentioned in the preceding paragraphs regarding pipeline construction, LAMC 112.05 (a) prohibits construction equipment noise louder than 75 dBA at 50 feet where feasible, and allows construction work only between 7:00 a.m. and 9:00 p.m. However, per LAMC 41.40(b), the Executive Director on behalf of the Board of Police Commissioners may grant permission for construction, repair or excavation work that benefits the public interest to occur within the hours from 9:00 p.m. to 7:00 a.m.

Nonetheless, there is the potential for noise from concurrently operating construction equipment and processes on site to cause an increase in outdoor noise level at nearby noise-sensitive receivers, such as those in sufficient proximity along Saltair Avenue, Texas Avenue, and Bundy Drive. Such increased noise levels, depending on the existing outdoor ambient sound environment, would be temporary. To minimize these effects and mitigate potentially significant impact with respect to exceedance of LAMC 112.05, on-site construction activities should implement mitigation measures MM-NOI-1. With implementation of mitigation MM-NOI-1, noise from construction activities at the Arcadia WTP site would be less than significant.

Operation

Less-Than-Significant Impact. Per LAMC 111.02 (d) Table II, the City of Los Angeles presumed ambient levels are 50 dB day / 40 dB night for the R3-zoned land uses that adjoin Bundy Drive, Texas Avenue, and Saltair Ave (as supported by the City of Los Angeles zoning map (City of Los Angeles 2019). These are understood to be L_{eq} values, based on the definition of "ambient noise" per LAMC 111.01(a). However, Table 3.13-2 shows the 15-minute duration outdoor SPL measurements performed during daytime hours in the vicinities of these locations. Although nighttime sound levels were not measured, samples of daytime background (L_{90}) sound levels were measured and (for purposes of this analysis) assumed to represent continuous or otherwise steady sources of sound throughout the day and night. While such steady sounds could include the indistinct aggregate din of far-away traffic and building HVAC, the proximity of the existing and operating Arcadia WTP facilities strongly suggest that their multiple continuous and/or "steady-state" sources (e.g., pumps, blowers, motors, etc.) are dominant, which is supported by investigator comments summarized in Table 3.13-1.

The statistical L_{90} values are lower than the L_{eq} values during the same measurement period because they quantify what sound pressure level is exceeded 90% of the time over the course of a measurement duration (in this case, 15 minutes). Therefore, continuous sources of sound, such as a pump or HVAC system, would be reasonably represented by an L_{90} value. Intermittent sources of sound, such as nearby roadway traffic, would not be represented well by L_{90}, but instead causes the overall ambient measurement (L_{eq}) to be higher than the L_{90} value. Thus, at night when roadway traffic volumes and corresponding noise contribution would be less than the daytime acoustic contribution, the L_{90} values influenced most by the contribution of continuous sources of noise such as the operating Arcadia WTP facilities can reasonably serve as an estimate of the nighttime ambient noise level. In a manner consistent with the above-mentioned difference (i.e., 50 – 40 = 10 dB) between daytime and nighttime, presumed outdoor ambient sound levels for the R3-zoned receiving land uses per LAMC 111.02(d) could be used to estimate nighttime L_{eq} as being 10 dB less than the daytime L_{eq} value.

Predicted aggregate noise from operating new on-site equipment associated with the proposed Olympic AWTF and Arcadia WTP Expansion is tabulated in Table 3.13-2, with studied receptor positions corresponding with callouts appearing in Figure 3 of Appendix D that details the prediction methodology. Table 3.13-2 compares predicted Project operation noise levels with the estimated outdoor ambient nighttime sound levels and shows that resulting differences are less than a 5 dBA increase to the outdoor sound environment at the studied receptors. With such noise level increases being no more than 5 dB as allowed by LAMC 112.02, the operational noise impact to the nearest NSR would be considered less than significant.

Table 3.13-2. Measured Baseline Sound Levels versus Predicted Arcadia WTP Expansion Operations Noise

Receptor Location[1]	Measured Daytime L_{eq} (dBA)	Estimated Nighttime L_{eq} ~ Measured Daytime L_{90} (dBA)	Predicted Arcadia WTP Expansion Operation L_{eq} (dBA)	Difference (dB) Between Estimated Nighttime L_{eq} and Predicted Expansion L_{eq}	Difference Compliant with LAMC 112.02?
Arcadia Property Line #1	76.2	65.4	55.9	9.5	Yes
Arcadia Property Line #2	61.9	59.0	36.0	23.0	Yes
Arcadia Property Line #3	62.2	55.4	39.5	15.9	Yes
Arcadia Property Line #4	67.1	65.0	55.8	9.2	Yes
Bundy Drive North[2]	76.2	65.4	44.8	20.6	Yes
Bundy Drive South[2]	76.2	65.4	36.3	29.1	Yes
Saltair Avenue South[3]	61.9	59.0	45.7	13.3	Yes
Saltair Avenue North[3]	61.9	59.0	51.2	7.8	Yes
Texas Avenue West[4]	62.2	55.4	34.6	20.8	Yes
Texas Avenue East[4]	62.2	55.4	37.4	18	Yes
On-site Receptor #1[2]	76.2	65.4	46.5	18.9	Yes
On-site Receptor #2[2]	76.2	65.4	45.1	20.3	Yes

Notes:
Leq = energy-equivalent sound level; L90 = sound level exceeded 90% of the time; dBA = A-weighted decibel; dB = decibel; LAMC = Los Angeles Municipal Code

1 Shown in Figure 3 of Appendix D
2 due to proximity, assumed same as Property Line #1 outdoor ambient Leq and L90
3 due to proximity, assumed same as Property Line #2 outdoor ambient Leq and L90
4 due to proximity, assumed same as Property Line #3 outdoor ambient Leq and L90

Even if the actual nighttime existing outdoor ambient L_{eq} values were consistently 10 dB less than the measured daytime L_{eq} values presented in Table 3.13-2, the predicted operation noise levels would still not be more than 5 dB greater at the studied locations, and thus compliant with LAMC 112.02. Please refer to Appendix D for details on the calculations for the predicted Arcadia WTP Expansion operation L_{eq} values appearing in Table 3.13-2. Therefore, noise associated with operation of the Olympic AWTF and Arcadia WTP Expansion would be considered less than significant.

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

Olympic Well Field Restoration

Less-Than-Significant Impact. SMMC Section 4.12.070 does have a vibration threshold with respect to perception without instrument, but exempts vibration from construction activities. Historic structures or other cultural resources, if present and sufficiently proximate to the construction activities, may deserve more stringent vibration velocity thresholds per California Department of Transportation (Caltrans) or other state standards. As further discussed in Section 3.5, Cultural Resources, the new well sites are proposed more than 50 feet north of the Santa Monica Air Line, and will consist of a mostly subsurface structure, with low-profile equipment on the surface, just above grade. This Santa Monica Air Line is eligible under Criterion A for its significant role in the creation and development of the City of Santa Monica, and as an important commuter rail system that served to sustain a critical connection between downtown Los Angeles

and Santa Monica. The proposed new well construction will be low-profile and is consistent with the overarching industrial and municipal uses of the surrounding area, including the historical industrial, railroad adjacent setting still extant along this segment of Olympic Boulevard. Therefore, the Project, as proposed, will not diminish the setting of the adjacent Santa Monica Air Line segment and will not impact the ability of the resource as a whole to convey its significance. Therefore, the proposed well locations and recycled water pipeline alignment would not directly or indirectly impact historic structures or potentially significant cultural resources. Therefore, potential construction vibration impacts associated with the proposed Project would be less than significant.

Olympic Pipeline

City of Santa Monica

Less-Than-Significant Impact. SMMC Section 4.12.070 does have a vibration threshold with respect to perception without instrument, but exempts vibration from construction activities. Historic structures or other cultural resources, if present and sufficiently proximate to the construction activities, may deserve more stringent vibration velocity thresholds per California Department of Transportation (Caltrans) or other state standards. As further discussed in Section 3.5, Cultural Resources, the proposed alignment is not proximate to historic structures or potentially significant cultural resources. Therefore, potential construction vibration impacts associated with the proposed Project would be less than significant.

City of Los Angeles

Less-Than-Significant Impact. The LAMC does not include ground vibration criteria. Guidance from Caltrans is typically applied and understood to be 0.2 inches per second (ips) peak particle velocity (PPV) with respect to human annoyance and potential building risk to older residential structures (Caltrans 2013). So long as pile driving is not expected to be involved in construction activities, the likely piece of construction equipment with the greatest vibration generation would be a roller-type compactor, which FTA guidance indicates has a reference PPV of 0.21 ips at a reference distance of 25 feet (FTA 2006). With residential-type sensitive receivers no closer than 30 feet to the planned new pipeline alignments on Texas Avenue, Bundy Drive, and Saltair Avenue, the predicted PPV for the roller at these closest residential structures would be 0.16 ips and thus compliant with this guidance. As further discussed in Section 3.5, Cultural Resources, the proposed alignment is not proximate to historic structures or potentially significant cultural resources. Therefore, potential construction vibration impacts associated with the proposed Project would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The LAMC does not include ground vibration criteria. Guidance from Caltrans is typically applied and understood to be 0.2 ips PPV with respect to human annoyance and potential building risk to older residential structures. So long as pile driving is not expected to be involved in construction activities, the likely piece of construction equipment with the greatest vibration generation would be a roller-type compactor, which FTA guidance indicates has a reference PPV of 0.21 ips at a reference distance of 25 feet. With residential-type sensitive receivers no closer than 65 feet to the planned nearest pavement work at the existing Arcadia WTP, the predicted PPV for the roller at these closest residential structures would be 0.05 ips and thus compliant with this guidance. As further discussed in

Section 3.5, Cultural Resources, the existing Arcadia WTP is not proximate to historic structures or potentially significant cultural resources. Therefore, potential construction vibration impacts associated with the proposed Project would be less than significant.

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

Impacts for All Project Components

Less-Than-Significant Impact. The proposed Olympic Well Field Restoration does not include the construction of habitable structures, and thus, would not expose new residential or employees to aviation traffic noise. Construction workers would be temporarily exposed to aviation traffic noise because the proposed well locations, Olympic Pipeline, and existing Arcadia WTP are approximately 0.8-mile, 0.9-mile, and 1.6 miles from the Santa Monica Municipal Airport at its closest point, respectively. Nonetheless, the proposed Project is located at a sufficient distance from and perpendicular to takeoff and landing flight pathways. Therefore, such exposures would be less than significant compared to proximate Project construction noise and the pre-existing outdoor ambient sound environment dominated by roadway traffic. Impacts due to aviation traffic noise exposure would be less than significant.

3.14 Population and Housing

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING – Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Existing Setting

Olympic Well Field Restoration

The proposed wells SM8, SM9, and SM10 associated with the Olympic Well Field are all located within the Olympic Boulevard median and SM11i, would be at Ishihara Park. There is no existing housing within the proposed well locations. The proposed recycled water pipeline would be subsurface within existing roadway, and thus, there is no existing housing.

Olympic Pipeline

The pipeline alignment and associated trenching would be entirely contained within existing roadways within the cities of Santa Monica and Los Angeles. There is no existing housing within the proposed Olympic Pipeline alignment.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP contains two houses that are used for City employees for site operators. No changes related to the structure, occupancy, or operations of these houses is proposed.

Impact Analysis

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

Impacts for All Project Components

Less-Than-Significant Impact. Under the proposed Project, no housing is proposed and no additional permanent employees would be required. The proposed Project would restore the Olympic Well Field's pumping capacity to expand local groundwater supplies to eliminate reliance on purchase of imported water supplies. Although the Project would increase capacity of local water sources, the purpose of the Project is to meet the City's existing and projected water demand with an increase in local water supply and a reduction in imported water sources. As such, the proposed Project would not generate population growth and thus, would not be considered growth inducing. Therefore, direct and indirect growth impacts would be less than significant.

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

Impacts for All Project Components

No Impact. The proposed Project would not require the demolition or alteration of existing housing. The proposed Project would not displace people or require replacement housing. Therefore, no impacts would occur.

3.15 Public Services

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. PUBLIC SERVICES				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☒	☐
Police protection?	☐	☐	☒	☐
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

Existing Setting

Olympic Well Field Restoration

The Project area is served by the Santa Monica Fire Department, which provides fire protection and emergency services to the City. The Santa Monica Fire Department operates four stations throughout the City. The nearest fire station is Station 3 (132 19th Street) located approximately 0.6-mile west of the Project site at its closest point.

The Project area is served by the Santa Monica Police Department, which provides police protection services to the City. The Santa Monica Police Department is located at 333 Olympic Drive approximately 1.7 miles southwest of the Project site at its closest point.

The Project area is served by the Santa Monica-Malibu Unified School District. The Santa Monica-Malibu Unified School District provides primary and secondary public education to students in the local area.

Recreational areas near the SM-8, SM-9, and SM-10i along Olympic Boulevard include Bergamot Station and art galleries and Gandara Park. The proposed location for SM-11i is located within Ishihara Park. The proposed recycled water pipeline would be located within Stewart Street near Gandara Park.

Olympic Pipeline

City of Santa Monica

A portion of the pipeline alignment and associated trenching would be contained within publicly-owned roadways within the City of Santa Monica. The nearest fire station is Station 3 (132 19th Street) located approximately 0.6-mile west of the closest well. The Santa Monica Police Department is located at 333 Olympic Drive approximately

2.3 miles southwest of the proposed alignment at its closest point. There are no City-owned parks or public facilities along the proposed alignment.

City of Los Angeles

A portion of the pipeline alignment and associated trenching would be contained within existing publicly-owned roadways within the City of Los Angeles. The Project area is served by the Los Angeles Fire Department (LAFD), which provides fire protection and emergency services to the County. The nearest LAFD fire station is Station 59 – West Los Angeles located at 11505 Olympic Boulevard, Los Angeles, approximately 1.3 miles southeast of the proposed alignment at its closest point.

The Project area is served by the Los Angeles Police Department, which provides police protection services to the West Los Angeles community. The West Los Angeles Police Station is located at 1663 Butler Avenue, Los Angeles, approximately 0.8-mile east of the proposed alignment at its closest point.

The Project area is served by the Los Angeles Unified School District. The Los Angeles Unified School District provides primary and secondary public education to students in the local area. There are no City-owned parks or public facilities along the proposed alignment.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is surrounded by a mix of commercial and residential land uses within the West Los Angeles Community Plan in the City of Los Angeles. The nearest LAFD fire station is Station 59 – West Los Angeles located at 11505 Olympic Boulevard, Los Angeles, approximately 1.3 miles southeast of the proposed alignment at its closest point. The West Los Angeles Police Station is located at 1663 Butler Avenue, Los Angeles, approximately 0.8-mile east of the proposed alignment at its closest point. The area is within a highly urbanized portion of the City of Los Angeles and does not contain open spaces or recreational opportunities.

Impact Analysis

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

Fire protection?

Olympic Well Field Restoration and Olympic Pipeline

Less-Than-Significant Impact. Based on the proximity of the Well Field and the Olympic Pipeline to the existing fire services, and since the proposed well locations and pipeline are within developed areas of the cities of Santa Monica and Los Angeles, it is anticipated the proposed Project could be served by existing fire services without adversely affecting personnel-to-resident ratios, response times, or other performance objectives. The potential need for fire protection services would occur primarily during the short-term construction of the Project, when heavy construction equipment with combustion engines and construction workers are working at the Project site. It is anticipated that existing Santa Monica Fire Department and LAFD resources could adequately serve the Well Field and the Olympic Pipeline during construction

activities, as no unusually combustible, flammable, or hazardous materials would be present. The proposed Project would not induce population or employment growth nor result in the addition of any new land uses or habitable structures that might require fire protection. There would no need for long-term fire or emergency medical services since these Project components are not considered uses with a high fire risk and would not entail the use of significant quantities of highly flammable materials. Therefore, impacts associated with the need for new or expanded fire protection facilities would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The Olympic AWTF and Arcadia WTP expansion components would result in water treatment process changes and a new chemical storage facility when compared to the existing condition. The presence of more and new chemicals on the Project site would potentially result in the need for additional fire services due to the presence of additional hazardous materials.

As previously discussed under Section 3.9 above, under the existing conditions, the Arcadia WTP submits facility information, a hazardous materials inventory, an emergency response/contingency plan, and APSA documentation to California Environmental Protection Agency's CERS. Pursuant to the federal Emergency Planning and Community Right to Know Act and the APSA, all handlers of hazardous materials, are required to submit their information to CERS for an annually review (CAL OES 2019). The hazardous materials at the existing Arcadia WTP are recorded and identified as part of CERS. The Arcadia WTP has an existing Consolidated Emergency Response/Contingency Plan, which identifies procedures for containing spills, releases, fires, or explosions, and prevents associated harm to persons, property, and the environment; facility evacuation; arrangements for emergency services; emergency equipment, its location, and capabilities; and employee training on operations and hazards. In addition, the Arcadia WTP maintains an SPCC Plan related to oil spills from the 5,000 gallon aboveground electric generator gas tank located on the site. All applicable plans and documentation must be updated upon Project implementation to ensure adequate regulatory oversight of the facility. Additionally, the City of Santa Monica would coordinate with LAFD to ensure the Project would not conflict with LAFD regulations or otherwise result in fire-related hazards that could affect LAFD services.

Per §53091(d) of the California Government Code, building ordinances of a county or city do not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water, wastewater, or electrical energy by a local agency. Therefore, the building ordinances of the City of Los Angeles would not apply to the construction of facilities for the treatment of water as proposed by the City of Santa Monica. However, the Title 17 and Title 22 of the California Code of Regulations (CCR), which include the official standards developed and approved by the American Water Works Association, set forth the standards for the construction and operation of water treatment plants. Construction and operation of the Olympic AWTF and Arcadia WTP in compliance with existing regulatory standards and requirements would ensure that the Project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, and that any impacts related to the maintenance of acceptable service ratios, response times, or other performance objectives would be less than significant.

Police protection?

Olympic Well Field Restoration and Olympic Pipeline

Less-Than-Significant Impact. Based on the proximity of the Well Field and the Olympic Pipeline to the existing police services, and since the proposed well locations and pipeline are within developed areas of the cities of Santa Monica and Los Angeles, it is anticipated the proposed Project could be served by existing police services without adversely affecting personnel-to-resident ratios, response times, or other performance objectives. The potential need for police protection services would occur primarily during the short-term construction of the Project, when heavy construction equipment and materials would be temporarily stored at the site, and construction workers would be working at the Project site. It is anticipated that existing Santa Monica Police Department and Los Angeles Police Department resources could adequately serve workers at the Well Field and the Olympic Pipeline site during construction activities, as activities would be relatively brief and would not involve unusual activities that would require additional police services. The proposed Project would not induce population or employment growth nor result in the addition of any new land uses or habitable structures that might require police protection. There would no need for long-term police with the implementation of the Project components. Therefore, impacts associated with the need for new or expanded police protection facilities would be less than significant.

Olympic AWTF and Arcadia WTP Expansion

No Impact. The Olympic AWTF and Arcadia WTP expansion would expand the water treatment capacity at the property, but would be a continuation of the existing land use and would not generate new employees or otherwise increase demands for police services. The proposed Project would not induce population or employment growth nor result in the addition of any new land uses or habitable structures that might require police protection. There would no need for long-term police with the implementation of the Project components. During construction activities, the property would continue to be adequately secured with fencing and gated entrance, as in the current condition. Based on the proximity of the Project site to the existing police station, it is anticipated that the proposed Project could be served without adversely affecting personnel-to-resident ratios, response times, or other performance objectives. Therefore, there would be no short-term or long-term impact to police services.

Schools?

Impacts of All Project Components

No Impact. The proposed Project would not involve a housing component that would result in population growth and increased demands on existing schools within the area. Therefore, no impact to schools would occur.

Parks?

Impacts of All Project Components

No Impact. Once completed, no housing is proposed and no additional employees would be required. The proposed Project would not involve a housing component or substantially increase employment opportunities within the City because the construction would be short-term and temporary, and construction

workers are anticipated to come from the surrounding area; therefore, the proposed Project would not substantially increase the use of existing neighborhood and regional parks or other recreational facilities. No impacts would occur.

Other public facilities?

Impacts of All Project Components

No Impact. The proposed Project would not involve a housing component or increase employment opportunities within the cities of Santa Monica or Los Angeles because the construction would be short term and temporary, and construction workers are anticipated to come from the surrounding area. The proposed Project would not generate new permanent residents in the cities of Santa Monica or Los Angeles who would use public facilities. The proposed Project would not involve a housing component or increase employment opportunities that would result in population growth. Therefore, additional demands on other public facilities, such as library or health care services would not occur as a result of Project implementation. No impacts would occur.

3.16 Recreation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

Existing Setting

Olympic Well Field Restoration

The City of Santa Monica provides 27 parks, 3 community gardens, 5 public grounds (e.g., Annenberg Beach House, Civic Auditorium, Community Center), 245 acres of open space (state beach), and multiple special use areas (e.g., Third Street Promenade, Santa Monica Place, Cove Skate park, Swim Center). Recreational areas near the SM-8, SM-9, and SM-10i along Olympic Boulevard include Bergamot Station and art galleries and Gandara Park. The proposed location for SM-11i is located within Ishihara Park. The proposed recycled water pipeline would be located within Stewart Street near Gandara Park.

Olympic Pipeline

City of Santa Monica

A portion of the pipeline alignment and associated trenching would be contained within publicly-owned right-of-way within the City of Santa Monica. The developed/disturbed land cover consists of pavement, roads, parking areas, and generally lacks vegetation. There are no City-owned parks along the proposed alignment.

City of Los Angeles

A portion of the pipeline alignment and associated trenching would be contained within publicly-owned right-of-way within the City of Los Angeles. The developed/disturbed land cover consists of pavement, roads, parking areas, and generally lacks vegetation. There are no City-owned parks along the proposed alignment.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is surrounded by a mix of commercial and residential land uses within the West Los Angeles Community Plan in the City of Los Angeles. The area is within a highly urbanized portion of the City of Los Angeles and does not contain open spaces or recreational opportunities.

Impact Analysis

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

Impacts for All Project Components

No Impact. Once completed, no housing is proposed and no additional employees would be required. The proposed Project would not involve a housing component or substantially increase employment opportunities within the City because the construction would be short-term and temporary, and construction workers are anticipated to come from the surrounding area; therefore, the proposed Project would not substantially increase the use of existing neighborhood and regional parks or other recreational facilities. No impacts would occur.

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

Impacts for All Project Components

Less-than-Significant Impact. The installation of SM-11i would be located at the eastern end of Ishihara Park; however, the proposed installation would not involve construction of recreational facilities or require the construction of recreational facilities. The impacts associated with the proposed Project as evaluated throughout this IS/MND have determined all potential adverse environmental impacts associated with the proposed Project would have no impact, less than significant impact, or less than significant impact with mitigation incorporated. The proposed Project would not include the construction of a recreational facility or the construction or expansion of recreational facilities that could have an adverse effect on the environment. In addition, the proposed Project would not induce population growth such that the expansion

of existing recreational facilities is required. Therefore, no impacts associated with the construction or expansion of recreational facilities would occur.

3.17 Transportation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII.TRANSPORTATION – Would the project:				
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☒	☐	☐
d) Result in inadequate emergency access?	☐	☒	☐	☐

Existing Setting

All Project Components

Regional access to the study area is provided by the Santa Monica Freeway (I-10) in the east-west direction, the San Diego Freeway (I-405) and the Pacific Coast Highway in the north-south direction. The nearest ramp interchange with I-10 is at Cloverfied Boulevard and 20th Street to the west of the proposed Project and at Centinela Avenue to the east of the proposed Project. The nearest ramp interchange with I-405 is at Wilshire Boulevard, approximately a mile east of the Arcadia WTP facility.

Roadways

City of Santa Monica

The City of Santa Monica's LUCE provides roadway classifications for the automobile network in the City. The City of Los Angeles Mobility Element 2035 provides Citywide General Plan Circulation System maps that have established street classifications and designations. The following presents a description of the existing street network conditions in the study area.

- **Olympic Boulevard** is designated as a Parkway (east of Lincoln Avenue) in the City's LUCE. Parkways are streets that serve as a linear park, incorporating continuous landscape, recreational bikeways, and pedestrian paths. Olympic Boulevard is a four-lane roadway, with two travel lanes in each direction and a wide tree-lined

median. The posted speed limit of 40 miles per hour and parking is not allowed along the segment in the study area. Per proposed LUCE Bicycle Network, it is an Auto/Transit Priority Street where bicycles are allowed with parallel routes prioritized. Sidewalks are constructed along this roadway and per proposed LUCE Pedestrian Network, this roadway is a recreation destination for walking.

- **Exposition Boulevard** is designated as a Neighborhood Street in the City's LUCE. Which are neighborhood streets that provides access primarily abutting uses and autos travel slow enough for people to stop in the street.
- **Stewart Street** is designated by the City's LUCE as a minor avenue, meaning it serves local auto and bicycle trips. In addition, there are bicycle lanes, bicycle paths, and streets designed so that cars and bicycles can mix comfortably.
- **Wilshire Boulevard** is designated as a Boulevard in the City's LUCE. Boulevards are regional transportation corridors with continuous mixed use and commercial land uses that provide access for all forms of transportation but emphasize transit and walking. Wilshire Boulevard is a four-lane roadway, with two travel lanes in each direction and a center two-way left turn lane that provides access to abutting mixed and commercial land uses. There are sidewalks and on-street parking is available along both sides of the street. The posted speed limit is generally 35 miles per hour. A potential haul route for transporting construction waste has been identified along Wilshire Boulevard from the WTP facility to a site in West LA.
- **Colorado Avenue** is designated as a Secondary Avenue which is considered an integral part of the City's circulation system. Colorado Boulevard is located between Broadway and Olympic boulevard, it extends from the eastern City of Santa Monica limit at Centinela Avenue to Lincoln Boulevard. Colorado Avenue has one travel lane in each direction with sidewalks and parking along both sides of the street. The posted speed limit is 30 mph. The pipeline alignment would be approximately 80 feet along Colorado Avenue between its staggered intersections with Berkeley Street. It should be noted that there is northbound left-turn restriction at this intersection from Colorado Avenue onto Berkeley Street during the AM and PM peak hours.
- **Centinela Avenue** is designated by the City's LUCE as a Secondary Avenue, which distributes auto trips into minor avenues and neighborhood streets. The segment of Centinela Avenue between Nebraska Avenue and Olympic Boulevard has one travel lane in each direction with a center two-way left turn lane. There are sidewalks and parking along both sides of the street. The posted speed limit is 35 miles per hour.
- **Nebraska Avenue** is designated by the City's LUCE as a minor avenue, meaning it serves local auto and bicycle trips. In addition, there are bicycle lanes, bicycle paths, and streets designed so that cars and bicycles can mix comfortably. The roadway segment of Nebraska Avenue between Centinela Avenue and Stewart Street has one travel lane in each direction with sidewalks and metered parking along both sides of the street. There is no posted speed limit along this roadway in the study area.
- **Berkeley Street** is designated as a Neighborhood Street that provides access primarily to abutting properties. In the study area the segments of Berkeley Avenue along which the pipeline would be constructed are from Arizona Avenue and Colorado Avenue and from Colorado Avenue to Nebraska Avenue. Berkeley Avenue is a two-lane undivided roadway, with one travel lane in each direction. It has sidewalks and on-parking along both sides of the street. There is no posted speed limit along this roadway in the study area.
- **Arizona Avenue** is a two-lane undivided roadway with one travel lane in each direction. It has sidewalks and parking along both sides of the street. There is a striped bicycle lane along this roadway. There is no posted speed limit along this roadway. The pipeline alignment along the segment of Arizona Avenue from Centinela Avenue to Berkeley Street would be within the City of Santa Monica.

City of Los Angeles

- **Texas Avenue** is a Collector street, east of Centinela Avenue, in the West Los Angeles Community Plan Circulation map. It is two-lane undivided roadway with sidewalks and parking along both sides of the street. The pipeline alignment along the segment of Texas Avenue from Centinela Avenue to Saltair Avenue would be within the City of Los Angeles.
- **Saltair Avenue** is a Local Street in the West Los Angeles Community Plan Circulation map. It is two-lane undivided roadway with sidewalks and parking along both sides of the street. The pipeline alignment along the segment of Saltair Avenue from Berkeley Street to Arcadia WTP would be within the City of Los Angeles.

Transit System

Public transit service in the City of Santa Monica consists of the City's Big Blue Bus municipal bus system as well as other regional bus lines operated by the Los Angeles County Metropolitan Transportation Authority (Metro).

- **Big Blue Bus Line 2** (Wilshire Boulevard) — Line 2 runs from downtown Santa Monica to UCLA. Service headways of about 15 minutes are provided during weekday peak periods and about 20 minutes during weekday off-peak periods and on weekends. The stop closest to the WTP site is at Bundy Drive and Wilshire Boulevard, south of Saltair Avenue.
- **Big Blue Bus Line 5** (Olympic Boulevard-Century City) — Line 5 runs from downtown Santa Monica to Century City and the Rimpau Transit Center via Colorado Avenue, Olympic Boulevard, and Pico Boulevard. Headways are about 20 minutes during weekday peak periods and about 30 minutes during weekday off-peak periods and on weekends. The stop closest to the well fields is at 26th Street and Olympic Boulevard, near the 26th Street/Bergamot station.
- **Route 14** (Centinela Avenue and Bundy Drive) – Route 14 runs from Brentwood to Inglewood via Centinela Avenue and Bundy Drive. Headways are about 15 minutes during weekday peak periods and over 20 minutes during weekday off-peak periods and on weekends. The stop closest to the WTP site is at Bundy Drive and Wilshire Boulevard, south of Saltair Avenue.
- **Route 16** (Wilshire Boulevard/Bundy Drive-Marina Del Ray) – Route 16 runs from West Los Angeles to Marina Del Ray via Wilshire Boulevard with stop at 26th Street/Bergomot Station. Headways are about 25 minutes during weekday peak periods and about 30 minutes during weekday off-peak periods. There is no service on weekends. The stop closest to the WTP is at Bundy Drive and Wilshire Boulevard, south of Saltair Avenue and closest to the well fields is at 26th Street and Olympic Boulevard, near the 26th Street/Bergamot station.
- **Route 43** (San Vicente Boulevard-26th Street-SMC) – Route 43 runs from Brentwood to Santa Monica College Campus via Olympic Boulevard and 26th Street/Bergamot Station. Headways are about 30 minutes with no midday or weekend. The stop closest to the Project is at 26th Street and Olympic Boulevard, near the 26th Street/Bergamot station.

The LA Metro provides transit service in the Project study area. LA Metro Routes 20 and 720 provide bus service within the study area.

- **Route 20** (Downtown Los Angeles to Downtown Santa Monica) – Route 20 runs from Downtown Los Angeles to Downtown Santa Monica via Wilshire Boulevard. Headways are about 12-15 minutes during weekday peak periods and about 20–30 minutes during off-peak and weekends. The stop closest to the WTP site is at Bundy Drive and Wilshire Boulevard, south of Saltair Avenue.
- **Rapid Line 720** - Line 720 offers limited service on Wilshire Boulevard, continuing to an eastern terminus in the City of Commerce. Buses run at up at 8-12 minute headways during peak weekday hours and 15 minute headways during off peak and weekends. The stop closest to the Project is at Bundy Drive and Wilshire Boulevard. The stop closest to the WTP site is at Bundy Drive and Wilshire Boulevard, south of Saltair Avenue.

Metro Exposition Line

The Metro Exposition Light Rail Line (E Line) runs along Colorado Avenue and parallel to Olympic Boulevard in the study area and connects downtown Santa Monica and downtown Los Angeles. The closest station to the Project is 26th Street/ Bergamot Station. The E Line started operation in Santa Monica in May 2016 and provides service every 6 minutes during weekday peak periods and every 12 minutes during weekday off-peak periods and on weekends.

Impact Analysis

Section 15064.3 of the revised CEQA Guidelines was adopted by the Governor's Office of Planning and Research on December 28, 2018, and states that vehicles miles traveled (VMT) is the appropriate measure of transportation impacts. Section 15064.3(c) also states that the provisions of this section shall apply prospectively (i.e., only applicable to new projects after date of adoption) and must be implemented statewide by July 1, 2020. Pursuant to CEQA Guidelines Section 15064.3, the City adopted VMT thresholds on June 9, 2020 (City of Santa Monica 2020a). The City's VMT thresholds indicates that utility and government uses of 50,000 square feet or less or those that result in less than 50 net new full-time equivalent employees would not result in significant VMT impacts. The proposed Project is a utility project that would be less than 50,000 square feet and would not generate an increase in employees. Therefore, temporary construction-related trips and nominal operations and maintenance trips would be minimal, resulting in less than significant VMT impacts. No VMT analysis is necessary. Nonetheless, an assessment of construction-related trips for short-term construction has been prepared and included in a new Appendix E to the IS/MND to discuss temporary effects to the nearby roadways for informational purposes.

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

Impacts for All Components

Less-Than-Significant Impact. The Project site is in close proximity to a variety of alternative transportation facilities. The Metro Light Rail E Line provides regional rail service in close proximity to the Well Field. Metro Light Rail E Line operates every 6-12 minutes. Additionally, the Big Blue Bus and Metro provide bus service close to all three Project components. The majority of these lines have service frequency or headways of 30 minutes or less, with peak-hour headways of 8 to 15 minutes. The construction of the proposed Project

would not disrupt existing rail/bus service nor would it require the relocation of existing bus stops. No new employees would be generated by the proposed Project, and only negligible vehicle trips would be required for periodic maintenance activities. As such, no long-term operational impacts related to transit, roadway, bicycle, and pedestrian facilities are anticipated with the proposed Project. Therefore, the proposed Project would not conflict with policies, programs, or plans supporting transit, roadway, bicycle and pedestrian facilities and impacts would be less than significant.

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

Section 15064.3 of the revised CEQA Guidelines was adopted by OPR on December 28, 2018, and states that vehicles miles traveled (VMT) is the appropriate measure of transportation impacts. Section 15064.3(c) also states that the provisions of this section shall apply prospectively (i.e., only applicable to new projects after date of adoption) and must be implemented statewide by July 1, 2020. As stated in CEQA Guidelines Section 15064.3(c), the provisions of Section 15064.3 shall apply prospectively.

As of the time of this writing, the City anticipates adoption of VMT thresholds on June 9, 2020. The City's draft proposed VMT thresholds indicates that utility and government uses of 50,000 sf or less or those that result in less than 50 net new FTE employees would not result in significant VMT impacts.[16] The proposed Project is a utility project that would be less than 50,000 sf and would not generate an increase in employees. Therefore, temporary construction-related trips and nominal operations and maintenance trips would be minimal, resulting in less than significant VMT impacts.

Impacts for All Project Components

Less-Than-Significant Impact. As described above, the proposed Project would not develop a new (permanent) land use, but would temporarily generate construction trips.

As described previously, construction of the proposed Project would result in a temporary increase in local trips and associated VMT as a result of construction-related workforce trips and material deliveries, and construction activities occurring within the public right-of-way.

Potential increases in vehicle trip generation as a result of Project construction would vary based on the construction activity, location, equipment needs, and other factors. As summarized under 3.17a, the proposed Project components, would not generate significant amount of daily or peak hour trips. Further, once construction is completed, no new employees would be generated by operations the proposed Project, and only negligible VMT would be generated for periodic maintenance activities. Therefore, the proposed Project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b). Impacts would be less than significant.

[16] http://santamonicacityca.iqm2.com/Citizens/Detail_Meeting.aspx?ID=1229

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

Olympic Well Field Restoration and Olympic Pipeline

Less-Than-Significant Impact With Mitigation Incorporated. During construction, short-term transportation-related hazards may be introduced due to the presence and use of construction vehicles and equipment including; lane closures, driveway blockages, loss of parking, and disruptions to traffic, transit, bicycle, and pedestrian movement especially in and around the pipeline alignment along Stewart Street, Exposition Boulevard, Arizona Avenue, Texas Avenue, Saltair Avenue, and Berkeley Street. This may result in a potentially significant safety hazard to construction workers and/or the public; therefore, mitigation would be required. To minimize these potential safety hazards, mitigation measure MM-TRAF-1 would be implemented.

MM-TRAF-1 Prior to the start of any Project-related construction at the Olympic Well Field and Olympic Pipeline, the City shall develop and implement a Project-specific Traffic Control Plan (TCP). The TCP shall be stamped and signed by a licensed Traffic Engineer or Civil Engineer in the State of California. The TCP shall be prepared in accordance with applicable regulations and standards, including the California Manual on Uniform Traffic Control Devices, and approved by all regulatory agencies having jurisdiction over the work locations shown in the TCP, including the City of Santa Monica and City of Los Angeles.

The construction of the proposed wells and pipeline would be conducted in accordance with the Standard Specifications for Public Works Construction (Greenbook), traffic control plans approved by City of Santa Monica, and the WATCH Manual to allow acceptable LOS, traffic safety, and emergency access to the site during construction. With implementation of MM-TRAF-1, impacts related to hazards during construction would be reduced to less than significant levels. Once operational, the maintenance, repair, and inspections for the proposed Project would be similar in nature to what is currently occurring for the existing Well Field. Therefore, no new impacts would occur. As such, impacts would be limited to the construction period and would be less than significant with mitigation incorporated.

Olympic AWTF and Arcadia WTP Expansion

The demolition, construction and improvements activities related to of the Olympic AWTF and Arcadia WTP Expansion would occur on the existing site located at 1228 South Bundy Drive. Construction vehicles, equipment and activities would occur on-site and there would not involve any construction work on the public right-of-way. The Contractor shall follow standard construction practices and ensure there are no hazardous geometric design features or incompatible uses on the Project site, and the impacts would be less than significant.

3.17 d) Would the project result in inadequate emergency access?

Impacts for All Project Components

Less-Than-Significant Impact With Mitigation Incorporated. Emergency access requirements are established in the City's Fire Code and the Santa Monica Fire Department. As previously discussed, construction vehicles would temporarily access the Project site via local roadways. The primary off-site impacts from the movement of construction trucks would include short-term and intermittent effects on

traffic operations because of slower movements and larger turning radii of delivery and haul trucks compared to passenger vehicles. However, the majority of the proposed construction locations are close to major roadways and freeways, including Wilshire Boulevard, Olympic Boulevard, I-405 and I-10, and travel on local streets would be minimal. Furthermore, incorporation of a Traffic Control Plan, as required by MM-TRAF-1, and adherence to the Greenbook and WATCH Manual would ensure that any temporary impacts to emergency vehicle flow and/or ingress/egress to properties along the alignment are coordinated in advance with emergency service providers and law enforcement to ensure that provision of sufficient emergency service, access, and evacuation can occur during construction if necessary.

Implementation of a Traffic Control Plan with applicable traffic control plans and adherence to the Greenbook and WATCH Manual would reduce impacts to emergency access to less than significant levels. Once operational, the proposed Project would not include any impediments to emergency access. Additionally, vehicular trips for maintenance, repair, and inspection during operation of the Well Field would be minimal and would be similar in quantity and nature to those currently occurring in the area for existing WTP facility. Therefore, no new impacts to emergency access would occur during operation. As such, impacts would be limited to the construction period and would be less than significant with mitigation incorporated.

3.18 Tribal Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. TRIBAL CULTURAL RESOURCES				
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☐	☐	☒
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	☐	☐	☒	☐

Existing Setting

All Project Components

CHRIS Records Search Results for Previously Recorded Historic Resources

A CHRIS Records search was conducted for the entire Project area, including the locations for each of the Project site components and a 0.5-mile radius buffer. This search included their collections of mapped prehistoric and historic archaeological resources and historic built-environment resources, Department of Parks and Recreation Site Records, technical reports, archival resources, and ethnographic references. Additional consulted sources include historical maps of the study area, the NRHP, CRHR, the California Historic Property Data File, the lists of California State Historical Landmarks, California Points of Historical Interest, and the Archaeological Determinations of Eligibility. A complete discussion of the CHRIS records search results, historical context, and resource evaluations for each Project site area is available in Appendix B, Cultural Resources Technical Report.

Sacred Lands File Search

Dudek contacted the California NAHC on October 3, 2019 to request a search of the SLF. Results of the SLF (received October 21, 2019) were positive. Because the SLF search does not include an exhaustive list of Native American cultural resources, the NAHC suggesting contacting five Native American individuals and/or tribal organizations who may have direct knowledge of cultural resources in or near the proposed Project site. No informal tribal consultation was initiated by Dudek for the proposed Project.

Assembly Bill 52 Consultation

The Project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to Tribal Cultural Resources as part of the CEQA process, and that the lead agency notify California Native American Tribal representatives (that have requested notification) who are traditionally or culturally affiliated with the geographic area of the proposed Project. All NAHC-listed California Native American Tribal representatives that have requested project notification pursuant to AB 52 were sent letters by the City on February 19, 2020. The letters contained the project location, project description, CHRIS records search results, SLF results, outline of AB 52 timing, request for consultation, and contact information for the appropriate lead agency representative. Documents related to AB 52 consultation are on file with the City of Santa Monica.

Impact Analysis

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

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

The Arcadia WTP located at 1228 South Bundy Drive in the City of Los Angeles, California (APN: 4263-003-270), and the Olympic Well Field well sites on Olympic Boulevard between Centinela Avenue and 26th Street were evaluated for historical significance. These were the only two resources that met the age

requirements for evaluation. All other resources are less than 45 years in age and do not require evaluation at this time. The completion of the potential SM11i wellhead at Ishihara Park and the construction of the Olympic Pipeline would not result in the demolition of any built resources and were therefore not included in the historical significance evaluation.

Olympic Well Field Restoration

No Impact. One historic age resource was identified in the Olympic Well Field Restoration area as a result of the reconnaissance-level survey: the SM-3 well site. This resource was evaluated for significance under applicable federal, state and local criteria and does not appear eligible for listing in the NRHP, CRHR, or as a City of Santa Monica Structure of Merit or Landmark due to a lack of important historical associations, lack of architectural significance, and insufficient integrity. Nor does it appear eligible as contributors to an historic district. As such, the SM-3 well site does not appear to be historical resources for the purposes of CEQA. No historic age resources were identified in the Olympic Well Field Restoration area as a result of the reconnaissance-level survey and desktop review. Therefore, the proposed Olympic Well Field Restoration would not cause a substantial direct adverse change in the significance of a historical resource for the purposes of CEQA.

Additionally, the cultural resources assessment for Olympic Well Field Restoration site analyzed the results of the CHRIS records search, SLF search, California Historical Resources Information (HRI) database, and extensive archival research. The Project proposes to construct the well completion equipment for four (4) new groundwater wells (SM-8, SM-9, SM-10i, and SM-11i), and decommission one groundwater well (SM-3) in the median of Olympic Boulevard. SM-10i would be located west of the intersection of Olympic Boulevard and 26th Street, and SM-8 would be located approximately 1,400 feet east of SM-10i and west of the intersection of Olympic Boulevard and Stewart Street. These two proposed well locations are adjacent to the Santa Monica Air Line right-of-way, however, the new well sites are proposed more than 50 feet north of the Santa Monica Air Line, and will consist of a mostly subsurface structure, with low-profile equipment on the surface, just above grade. This Santa Monica Air Line is eligible under Criterion A for its significant role in the creation and development of the City of Santa Monica, and as an important commuter rail system that served to sustain a critical connection between downtown Los Angeles and Santa Monica. The proposed new well construction will be low-profile and is consistent with the overarching industrial and municipal uses of the surrounding area, including the historical industrial, railroad adjacent setting still extant along this segment of Olympic Boulevard. Therefore, the Project, as proposed, will not diminish the setting of the adjacent Santa Monica Air Line segment and will not impact the ability of the resource as a whole to convey its significance.

No other adjacent resources were identified as a result of the records search or survey that could be indirectly impacted by the proposed Project. As a result, the proposed Project will have a less than significant impact on historical resources under CEQA. No further management recommendations are required for this adjacent resource. As such, the proposed Project would not indirectly affect any adjacent historic-age structures.

Olympic Pipeline

No Impact. No historic age resources were identified in the study area of the Olympic Pipeline as a result of the reconnaissance-level survey. Therefore, the proposed Olympic Pipeline would not directly cause a substantial adverse change in the significance of a historical resource for the purposes of CEQA.

Additionally, the cultural resources assessment for the Olympic Pipeline analyzed the results of the CHRIS records search, SLF search, California HRI database, and extensive archival research. No additional cultural resources were identified adjacent to the Olympic Pipeline study area, which might be indirectly affected by the Project. Further, the proposed Olympic Pipeline segment would remain entirely within the street right-of-way, would be entirely subsurface, and would have no impact to adjacent buildings and structures along the proposed alignment. Additionally, the Olympic Pipeline work proposes no modifications to existing streetscape features. As such, the proposed Project would not indirectly affect any adjacent historic-age structures.

Olympic AWTF and Arcadia WTP Expansion

No Impact. One historic age resource was identified in the Olympic AWTF and Arcadia WTP Expansion area as a result of the reconnaissance-level survey: the Arcadia WTP. This resource was evaluated for significance under applicable federal, state and local criteria and the Arcadia WTP does not appear eligible for listing in the NRHP, CRHR, or as a City of Santa Monica Structure of Merit or Landmark due to a lack of important historical associations, lack of architectural significance, and insufficient integrity. Nor does it appear eligible as a contributor to an historic district. As such, the Arcadia WTP does not appear to be historical resources for the purposes of CEQA. Therefore, the proposed Olympic AWTF and Arcadia WTP Expansion would not directly cause a substantial adverse change in the significance of a historical resource for the purposes of CEQA.

Additionally, the cultural resources assessment for the Olympic AWTF and Arcadia WTP Expansion analyzed the results of the CHRIS records search, SLF search, California HRI database, and extensive archival research. No additional cultural resources were identified adjacent to the Olympic AWTF and Arcadia WTP Expansion area, which might be indirectly affected by the Project. The proposed replacement of the equipment within the Decarbonator Building would result in the placement of new larger air stripping towers, which could be 4 to 5-feet taller than the existing RO Building height. However, this potential height increase would not result in a change in the character or use of the site, would not cast shadows on adjacent land uses, and would not result in a visual intrusion to any potential nearby historical resources. The Arcadia WTP will continue to operate but would feature new buildings that would be comparable size and scale to existing buildings on site. As such, the proposed Project would not indirectly affect any adjacent historic-age structures.

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

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

All Project Components

Less-Than-Significant Impact. All NAHC-listed California Native American Tribal representatives who have requested project notification pursuant to AB 52 (California Public Resources Code, Section 21074) were sent letters by the City on February 19, 2020. As of date of this document, no written letters were received to initiate consultation. One phone call took place between the City and a Native American representative from the Gabrieleno Band of Mission Indians – Kizh Nation. Because project construction would be conducted in a location that has been previously disturbed, the City and Native American representative agreed there is little concern over the potential discovery of tribal resources on the Project site. Therefore, potential impacts to tribal cultural resources would be less than significant.

3.19 Utilities and Service Systems

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

Existing Setting

All Project Components

Water Supply

Water supply for the Project is provided by the City of Santa Monica Water Resources Division, Public Works Department. The City of Santa Monica distributes water to the entirety of the City of Santa Monica. The estimated current resident population served by the City's water system is approximately 93,283 people. According to the City of Santa Monica's 2015 Urban Water Management Plan, from 2010 to 2015, approximately 45% of Santa Monica's Water was purchased from Municipal Water District, 54% came from groundwater, and 1% came from recycled water from the Santa Monica Urban Runoff Recycling Facility. Santa Monica's groundwater supply is exclusively pumped from the Santa Monica Basin (City of Santa Monica 2016c).

In accordance with the SGMA, the DWR has classified the Santa Monica Basin as having a medium priority for enacting a GSP. Under SGMA, medium and high priority basins are required to submit a GSP or an alternative plan to the DWR by 2022 to ensure that sustainable groundwater goals are met by 2042 (DWR 2019). In response to this prioritization, the Santa Monica City Council has authorized the City to participate in the formation of a GSA over the Santa Monica Basin in collaboration with LADWP, the City of Beverly Hills, Culver City, and Los Angeles County. The GSA will develop and implement a GSP to ensure groundwater is managed on a sustainable basis (SMPW 2019).

Sewer Infrastructure

The City of Los Angeles owns and operates three sewer collection systems for the City, as well as 29 satellite agencies, including the City of Santa Monica. These sewer collection systems consist of the Hyperion System, Terminal Island System, and Los Angles Regional System (Harbor Gateway). Collectively, when last measured in January 2019, these systems conveyed approximately 272 mgd of wastewater via approximately 6,439 miles of gravity mains, 33 miles of force mains, and 46 pumping plants. The Project site is located within the Hyperion System (LA Sanitation 2019a).

Currently, wastewater from the Project site is conveyed through existing sewer lines located within adjacent streets. These flows are conveyed to the Hyperion Water Reclamation Plant, which on average, treats 275 MGD wastewater on a dry weather day. Because wastewater entering Hyperion Water Reclamation Plant can double on rainy days, the plant was designed to accommodate both dry and wet weather days with a maximum daily flow of 450 MGD and peak wet weather flow of 800 MGD (LA Sanitation 2019b).

Solid Waste

LA Sanitation & Environment is responsible for the collection of refuse, recyclables, yard trimmings, and bulky items within the City of Los Angeles. Waste collected from the City is taken to the Central L.A Recycling & Transfer Station, which is located at 2201 E. Washington Boulevard, Los Angeles 90021, and has a permitted capacity of 4,025 tons per day (LA Sanitation 2019b).

Within the City of Santa Monica, Santa Monica Public Work's Solid Waste Management Division provides refuse and recycling services to residential customers within the City (Santa Monica Public Works 2019). Waste collected by the City of Santa Monica Public Works' is transferred to a local transfer station, such as the Southern California Disposal Transfer Station, which located at 1908 Frank Street, Santa Monica, CA 90404 and has a permitted capacity of 1,056 tons per day (LADPW 2019). For both the Central L.A Recycling & Transfer Station and Southern California Disposal Transfer Station facilities, transferred waste is processed and sorted before being conveyed to a nearby landfill. The closest landfills the Project site include the Calabasas Landfill and the Scholl Canyon Landfill. Details on these landfills are provided below (CalRecycle 2020).

- The Calabasas Landfill is located approximately 16.0 miles to the northwest of the Project site, located at 5300 Lost Hills Road, Agoura, CA 91301. This landfill is owned and operated by the County of Los Angeles. The Calabasas Landfill has a maximum permitted daily capacity of 3,500 tons.
- The Scholl Canyon Landfill is located approximately 17 miles northeast of the Project site, located at 3001 Scholl Canyon Road, Glendale, CA 91206. This landfill is owned and operated by the County of Los Angeles. The Scholl Canyon Landfill has a maximum permitted daily capacity of 3,400 tons.

Olympic Well Field Restoration

The wells and the surrounding area is predominately paved and developed. The existing Olympic Boulevard median that separates the two-lane Olympic Boulevard and is grass-covered with several scattered trees. Additionally, Ishihara Park includes ornamental vegetation and grassy areas, as well as paved areas. Nonetheless, the predominance of impervious surfaces associated with developed properties and roadways in the Olympic Well Field Restoration area prevents water from percolating into the ground. Stormwater from the Project site surrounding properties flows through municipal storm drains until converging into the 12-inch, reinforced cement concrete, Kenter Canyon Drain. Kenter Canyon Drain eventually drain into the Santa Monica Bay (LACDPW 2019). Existing subterranean utilities within Olympic Boulevard include a 48-inch storm drain mainline and 15-inch laterals, communications infrastructure, and water lines.

Olympic Pipeline

The pipeline alignment would be entirely contained within existing roadways (public rights-of-way) within the cities of Santa Monica and Los Angeles. The roadways are fully paved, which prevents water from percolating into the ground. According to the LACDPW's Los Angeles County Storm Drain System and regional topographic patterns (USGS 2015), it appears a segment of the proposed new pipeline extending mid-way between South Bundy Drive and Amherst Avenue, flow through municipal storm drains before discharging into the Ballona Creek. For the remainder of the alignment, it appears that stormwater flows through municipal storm drains until converging into the 12-inch, reinforced cement concrete, Kenter Canyon Drain. Both Ballona Creek and the Kenter Canyon Drain eventually drain into the Santa Monica Bay (LACDPW 2019). Existing utilities within Nebraska Avenue include subterranean 12-inch sewer line, communications infrastructure, 27-inch storm drain mainline and 18-inch laterals, and 12-inch water line. There are no existing subterranean utilities within Berkeley Street, until its intersection with Colorado Avenue, which contains subterranean electrical infrastructure, communications infrastructure, 12-inch sewer line, and a 12-inch water line. From Colorado Avenue, Berkeley Street includes a 12-inch water line, with stormdrain laterals connecting to the 36-inch storm drain mainlines within Broadway and Santa Monica Boulevard. Arizona Avenue contains a 24-inch water line, and 8-inch water line, communications infrastructure, and an 8-inch sewer line. Texas Avenue includes a 30-inch water line, 6-inch water line, communications infrastructure, which intersect with a 30-inch storm drain lines and 10-inch sewer line. At Bundy Drive, the utilities within Texas Avenue include an 8-inch brine line, 6-inch water line, electrical infrastructure, communications infrastructure, and an 8-inch sewer line. Infrastructure within Saltair Avenue includes a 8-inch sewer line, 42-inch storm drain, and 6-inch water line.

Olympic AWTF and Arcadia WTP Expansion

The Arcadia WTP and the surrounding area is predominately paved and developed, with approximately 1 acre of the 4.8-acre site being vegetated with grass and trees. Vegetation within and near the Project area consists of maintained lawns and ornamental vegetation, as well as shrubs and trees located in isolated planter areas. According to the LACDPW's Los Angeles County Storm Drain System and regional topographic patterns (USGS 2015), it appears that runoff from the Arcadia WTP sheetflows off of the site through municipal storm drains before discharging into the Ballona Creek.

Impact Analysis

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

Olympic Well Field Restoration

Water Facilities

Less-Than-Significant Impact. The construction of the proposed Well Field would require short-term use of water for dust suppression, which would be delivered via water truck and would not require connections to the existing water infrastructure.

The operation of the proposed Olympic Well Field restoration would not result in new or expanded water facilities beyond those analyzed as part of the proposed Project, the impacts of which are addressed in Sections 3.1 through 3.21 of this IS/MND. One of the overarching goals of this Project is to maximize local groundwater production and produce as much potable water as possible and concurrently reduce imported MWD water supply while maintaining sustainable yield of the groundwater basin. The replacement of existing MWD deliveries with local supplies would not directly or indirectly increase demands for potable water or otherwise result in the relocation or construction of new or expanded water facilities beyond those analyzed in this IS/MND.

Wastewater Facilities

Less-Than-Significant Impact. The construction activities associated with the wellhead completions would not generate wastewater, as workers would be provided portable restrooms that would be disposed through a certified vendor. No connections to existing sewage infrastructure are required.

The operations of the Olympic Well Field would not generate sewage, although it could result in an increase in wastewater discharge at the Arcadia WTP because an increase in local groundwater supply flow would run through the treatment train and generate RO concentrates. After treatment, the generated discharge is disposed into the Hyperion System. Currently, wastewater from the Arcadia WTP is conveyed through existing sewer lines located within adjacent streets to the Hyperion Water Reclamation Plant. However, coordination with LA Sanitation with regard to discharges from the existing Arcadia WTP would ensure the proposed Project would continue to comply with the Industrial Wastewater Permit issued by the City of Los Angeles. Currently, the City is approved to discharge 44,317 gallons per day to the City of Los Angeles sewer system at the northern end of the existing Arcadia WTP (LA Sanitation 2018). The proposed Project would not request additional sewer disposal capacity from LA Sanitation for the greensand filter backwash, which currently goes to LA Sanitation's sewer, because the Project proposes to reduce the quantity of RO concentrates that will be discharged (Pour pers. comm. 2020). Therefore, there the proposed Olympic Well Field Restoration can be served by LA Sanitation's existing sewer disposal (brine) line. Impacts to wastewater treatment facilities due to additional groundwater generated at the Olympic Well Field would be less than significant.

Stormwater Drainage Facilities

Less-Than-Significant Impact. Construction would require the conversion of grassy areas to paved impervious surfaces. The proposed Olympic Well Field Restoration would be constructed within an existing median that separates the two-lane Olympic Boulevard and within Ishihara Park. Both locations are currently vegetated. As described in Section 3.10, Hydrology and Water Quality, the proposed Project would not substantially change the amount of stormwater runoff from the Project site and surrounding area. The well completions would result in minor additional amounts of surface runoff due to the new impervious surfaces; however, this runoff would sheetflow into adjacent vegetated areas within the median or Park, and into existing stormwater drainage facilities. Therefore, the proposed Olympic Well Field Restoration would not require or result in the relocation or expansion of construction of new or expanded stormwater facilities. Impacts would be less than significant.

Electric Power and Natural Gas Facilities

Less-Than-Significant Impact. As discussed in Section 3.6, Energy, the amount of electricity used during construction would be minimal because typical demand would stem from electrically powered hand tools. No natural gas use is anticipated during construction. The electricity used for construction activities would be temporary and minimal; therefore, short-term Project construction would not require new or expanded electricity or natural gas facilities.

Operational activities associated at the Well Field would not generate the need for natural gas, but the proposed wells would operate under pressure and would require electrical equipment to power the pumps, valves, and instrumentation. However, when considering avoided electricity associated with replacing imported water with local groundwater, there is a net reduction in electricity demand for the City's water supply. Local connections at the well sites to existing electrical subterranean infrastructure would be constructed, and no new electrical infrastructure would be required. The City would coordinate with SCE prior to connection. Therefore, the proposed Olympic Well Field Restoration would not require or result in the relocation or expansion of construction of new or expanded electrical or natural gas facilities. Impacts would be less than significant.

Telecommunications Facilities

No Impact. The proposed Project would not generate population growth or construct habitable facilities; therefore, the Well Field would not require telecommunications facilities.

Olympic Pipeline

Water Facilities

Less-Than-Significant Impact. The construction of the proposed Olympic Pipeline would require short-term use of water for dust suppression, which would be delivered via water truck and would not require connections to the existing water infrastructure. The operation of the proposed Olympic Pipeline would not result in new or expanded water facilities beyond those analyzed as part of the proposed Project, the impacts of which are addressed in Sections 3.1 through 3.21 of this IS/MND. One of the overarching goals of this Project is to maximize local groundwater production and produce as much potable water as possible and concurrently reduce imported MWD water supply while maintaining sustainable yield of the

groundwater basin. The replacement of existing MWD deliveries with local supplies would not directly or indirectly increase demands for potable water or otherwise result in the relocation or construction of new or expanded water facilities beyond those analyzed in this IS/MND.

Wastewater Facilities

Less-Than-Significant Impact. The construction activities associated with the pipeline would not generate wastewater, as workers would be provided portable restrooms that would be disposed through a certified vendor. No connections to existing sewage infrastructure are required.

The operations of the pipeline would not generate sewage, although it would convey groundwater to the Olympic AWTF and Arcadia WTP, which could result in an increase in wastewater discharge due to RO concentrates. As previously discussed, coordination with LA Sanitation with regard to discharges from the existing Arcadia WTP would ensure the proposed Project would continue to comply with the Industrial Wastewater Permit issued by the City of Los Angeles. The proposed Project would not request additional sewer disposal capacity from LA Sanitation; thus, the proposed Olympic Pipeline would not require or result in the relocation or expansion of construction of new or expanded wastewater facilities. Impacts would be less than significant.

Stormwater Drainage Facilities

No Impact. The proposed Olympic Pipeline alignment is located within existing roadways that are currently impervious, and thus, the post-Project condition would not change the amount of stormwater runoff from the site.

Electric Power and Natural Gas Facilities

Less-Than-Significant Impact. As discussed in Section 3.6, Energy, the amount of electricity used during construction would be minimal because typical demand would stem from electrically powered hand tools. No natural gas use is anticipated during construction. The electricity used for construction activities would be temporary and minimal; therefore, short-term Project construction would not require new or expanded electricity or natural gas facilities. Operational activities associated at the Olympic Pipeline would not generate the need for natural gas or electricity. Therefore, the proposed Olympic Pipeline would not require or result in the relocation or expansion of construction of new or expanded electrical or natural gas facilities. Impacts would be less than significant.

Telecommunication Facilities

No Impact. The proposed Project would not generate population growth or construct habitable facilities; therefore, the Olympic Pipeline would not require telecommunications facilities.

Olympic AWTF and Arcadia WTP Expansion

Water Facilities

Less-Than-Significant Impact. The construction of the proposed Olympic AWTF and Arcadia WTP Expansion would require short-term use of water for dust suppression, which would be delivered via water truck and would not require connections to the existing water infrastructure.

The Olympic AWTF would be a new treatment facility specifically designed to treat contaminated waters from the Olympic Well Field and would be located at the existing Arcadia WTP. Additionally, the Arcadia WTP would be expanded to increase capacity to handle the additional flows from the Olympic AWTF as well as additional production of potable water from leveraging new technologies to enhance production efficiency. The operation of the proposed Olympic Pipeline would not result in new or expanded water facilities beyond those analyzed as part of the proposed Project, the impacts of which are addressed in Sections 3.1 through 3.21 of this IS/MND. As addressed in Section 3.14(a), the proposed Project would not generate population or employment growth and thus, would not require additional water supplies. The proposed Olympic AWTF and Arcadia WTP Expansion would assist the City in increasing their local water supply to meet existing water supply demand with an increase in local sources and a reduction in imported sources. One of the overarching goals of this Project is to maximize local groundwater production and produce as much potable water as possible and concurrently reduce imported MWD water supply while maintaining sustainable yield of the groundwater basin. The replacement of existing MWD deliveries with local supplies would not directly or indirectly increase demands for potable water or otherwise result in the relocation or construction of new or expanded water facilities beyond those analyzed in this IS/MND.

Wastewater Facilities

Less-Than-Significant Impact. The construction activities associated with the Olympic AWTF and Arcadia WTP would not generate wastewater, as workers would be provided portable restrooms that would be disposed through a certified vendor. No connections to existing sewage infrastructure are required.

As previously discussed above, coordination with LA Sanitation with regard to discharges from the existing Arcadia WTP would ensure the proposed Project would continue to comply with the Industrial Wastewater Permit issued by the City of Los Angeles. The proposed Project would not request additional sewer disposal capacity from LA Sanitation; thus, the proposed Olympic AWTF and Arcadia WTP Expansion would not require or result in the relocation or expansion of construction of new or expanded wastewater facilities. Impacts would be less than significant.

Stormwater Drainage Facilities

Less-Than-Significant Impact. As described in Section 3.10, Hydrology and Water Quality, the proposed Arcadia WTP would convert currently vegetated areas with grass/trees into impervious paved surfaces. New impervious surfaces could increase the amount and/or rate of surface runoff; however, the additional runoff would not substantially change in the post-Project condition with compliance with existing City regulations and incorporation of appropriate LID BMPs. Runoff would sheetflow into the existing stormwater drainage facilities on the Project site, which is largely paved with impervious surfaces in the current condition. Therefore, the proposed Olympic AWTF and Arcadia WTP expansion would not require or result in the relocation or expansion of construction of new or expanded stormwater facilities and impacts would be less than significant.

Electric Power and Natural Gas Facilities

Operational activities associated with the proposed Project would not generate routine daily equipment operation or additional vehicle trips. As discussed in Section 3.6, Energy, the proposed Project would the amount of electricity used during construction would be minimal because typical demand would stem from electrically powered hand tools. The electricity used for construction activities would be temporary and minimal; therefore, Project construction would not result in new infrastructure requirements. Additionally, the City is in the process of coordination with LADWP with regards to electric power. LADWP had indicated to the City that electric service is available and the estimated power requirement for the proposed Project is part of the total load growth forecast for the City of Los Angeles and had been taken into account (LADWP 2020). When considering avoided electricity associated with replacing imported water with local groundwater, there is a net reduction in electricity demand for the City's water supply.

Natural gas is not anticipated to be required during construction of the Project. Once operational, the Project would consume approximately 190,050 kBtu per year. The Project is subject to statewide mandatory energy requirements as outlined in CCR Title 24, Part 6, California Energy Code. Therefore, the Project would not result in the relocation or expansion of construction of new or expanded electric power and natural gas facilities. Impacts would be less than significant.

Telecommunication Facilities

No Impact. The proposed Project would not generate population growth or construct habitable facilities; therefore, the Olympic Pipeline would not require telecommunications facilities.

3.19 b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. The construction of the proposed Project would require short-term use of water for dust suppression, which would be delivered via water truck and would not require connections to the existing water infrastructure. Short-term water use would be minimal and would not significantly affect water supplies during normal, dry, and multiple dry years.

Olympic Well Field Restoration

Less-Than-Significant Impact. The proposed Project aims to enhance sustainability of the City's water supply through developing alternative water supplies and expanding use of local groundwater supplies to eliminate reliance on purchase of imported water supplies. The proposed Olympic Well Field Restoration component of the proposed Project would involve the equipping two new injection wells (SM-10i and SM-11i) and two domestic groundwater production wells (SM-8 and SM-9), and the construction of a new recycled water line to connect SM-11i to a planned recycled water line. The production wells would allow for groundwater recovery and the injection wells would recharge the Olympic Well Field with purified water from the City's SWIP to maintain sustainable yields. The proposed Project itself does not generate water supply demand. Further, the Olympic Well Field Restoration is proposed to maximize local water supplies to eliminate reliance on imported water supplies. Therefore, the proposed Project would not significantly affect water supplies during normal, dry, and multiple dry years.

Olympic Pipeline

No Impact. The proposed Olympic Pipeline would not require the permanent use of water supplies, but would convey water from the Well Field to the Olympic AWTF at the Arcadia WTP. As addressed in Section 3.14(a), the proposed Project would not generate population or employment growth and thus, would not require additional water supplies.

Olympic AWTF and Arcadia WTP Expansion

Less-Than-Significant Impact. The Olympic AWTF would be a new treatment facility specifically designed to treat contaminated waters from the Olympic Well Field and would be located at the existing Arcadia WTP. Additionally, the Arcadia WTP would be expanded to increase capacity to handle the additional flows from the Olympic AWTF as well as additional production of potable water from leveraging new technologies to enhance production efficiency. As addressed in Section 3.14(a), the proposed Project would not generate population or employment growth, or construct new habitable structures; therefore, the Project would not require additional water supplies. Additionally, water use at the Project site may be reduced due to the elimination of approximately 0.69-acre of landscaping (i.e. turf grass and trees) on the site. Further, the proposed Project would assist the City in increasing their local water supply to meet existing water supply demand with a reduction in imported sources. Therefore, the proposed Project would not significantly affect water supplies during normal, dry, and multiple dry years.

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

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. The construction activities associated with the proposed Project would not generate wastewater, as workers would be provided portable restrooms that would be disposed through a certified vendor. No connections to existing sewage infrastructure are required.

Long-Term Operational Impacts for All Project Components

Less-Than-Significant Impact. The operations of the proposed Project could result in an increase in discharge at the existing Arcadia WTP because an increase in local water supply flow would run through the treatment train from the Well Field to the Olympic AWTF and Arcadia WTP. However, as previously discussed, coordination with LA Sanitation with regard to discharges from the existing Arcadia WTP would ensure the proposed Project would continue to comply with the Industrial Wastewater Permit issued by the City of Los Angeles. Currently, the City has purchased (from City of Los Angeles) discharge capacity of up to 1,200,000 gallons per day and is typically discharges 44,317 gallons per day to the City of Los Angeles sewer system at the northern end of the existing Arcadia WTP (LA Sanitation 2018). The proposed Project would not request additional sewer disposal capacity from LA Sanitation for the greensand filter backwash, which currently goes to LA Sanitation's sewer because the Project proposes to reduce the RO concentrates that will be discharged (Pour pers. comm. 2020). Therefore, the proposed Project can be served by LA Sanitation's existing sewer disposal line without requiring additional capacity. The Project has received a determination by the wastewater treatment provider that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments.

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

and

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

Short-Term Construction Impacts for All Project Components

Less-Than-Significant Impact. The proposed Project would generate minimal construction waste, such as some concrete, wood forms, and soil. Demolition debris from the decommissioning of SM-3 at the Well Field would be required and concrete/asphalt debris would be generated from the Olympic Pipeline. Demolition materials including concrete, metal, pipes, and building debris from the expansion of the Arcadia WTP would also be generated. The proposed Project would be required to comply with SMMC Chapter 8.108, requiring submission of a waste management plan and requiring 70% of all construction and demolition material generated by the proposed Project to be diverted away from a landfill. Construction activities would be conducted in compliance with all applicable federal, state, and local management and reduction statutes and regulations related to solid waste. Compliance with existing regulations regarding construction and demolition debris diversion would ensure that short-term impacts related to construction activities would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals.

Long-Term Operational Impacts for All Project Components

Less-Than-Significant Impact. No solid waste generation would occur due to long-term operations at the Well Field or Olympic Pipeline. Additionally, no new land uses or habitable structures would be constructed at the Arcadia WTP or Olympic AWTF; therefore, solid waste generation would be limited to disposal of materials associated with packaging for chemical deliveries and use. No new land uses are proposed that would alter the nature of the current waste stream generated at the Arcadia WTP. Operational activities would be conducted in compliance with all applicable federal, state, and local management and reduction statutes and regulations related to solid waste. The Project would divert at least 75% of its Construction and Waste Debris in compliance with SMMC 8.108, Construction and Demolition Material Waste Management Plans. Therefore, quantities of solid waste generation would be minimal and the Project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals.

3.20 Wildfire

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

Existing Setting

Olympic Well Field Restoration

The proposed well locations are within highly urbanized areas that lack wildlands, and are not within state responsibility areas or lands classified as very high fire hazard severity. The proposed locations for SM-8, SM-9, and SM-10i are within an existing median in the public right-of-way in the Bergamot Area Plan within the City of Santa Monica, and the proposed location for SM-11i is within the eastern end of Ishihara Park. The proposed recycled water pipeline would be located within the existing roadways (Exposition Boulevard and Stewart Street). The uses surrounding the Project site are urban and fully developed. The surrounding area is relatively flat and lacks topographical features.

Olympic Pipeline

The Olympic Pipeline is proposed to be constructed within the existing roadway through a fully urbanized and developed portion of the cities of Santa Monica and Los Angeles. The surrounding area is relatively flat and lacks

topographical features. The location for and area surrounding the Olympic Pipeline are not within state responsibility areas or lands classified as very high fire hazard severity.

Olympic AWTF and Arcadia WTP Expansion

The existing Arcadia WTP is surrounded by a mix of commercial and residential land uses within the West Los Angeles Community Plan in the City of Los Angeles. The area is within a highly urbanized portion of the City of Los Angeles and is not within state responsibility areas or lands classified as very high fire hazard severity. The surrounding area is relatively flat and lacks topographical features.

Impact Analysis

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

Short-Term Construction Impacts for All Project Components

No Impact. According to the California Department of Forestry and Fire Protection's Fire Hazard Severity Zones maps, none of the Project components are located within moderately, highly, or very highly susceptible to wildland fire (CAL FIRE 2007). Emergency access along Olympic Boulevard, the alignment of the Olympic Pipeline, and other affected roadways would be maintained at all times during construction. Installation of the Olympic Pipeline would require temporary lane closures within public streets, which could temporarily interfere with evacuation routes. However, because the Project components are not located within a state responsibility areas or lands classified as very high fire hazard severity, the Project would not substantially impair an adopted emergency response plan or emergency evacuation plan in a very high fire hazard severity area.

Long-Term Operational Impacts for All Project Components

No Impact. According to the California Department of Forestry and Fire Protection's Fire Hazard Severity Zones maps, the none of the Project components are within moderately, highly, or very highly susceptible to wildland fire (CAL FIRE 2007). Long-term operations of the proposed Project would have no impact on any roadways or otherwise hinder emergency response or evacuations.

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

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

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

Impacts for All Project Components

No Impact. According to the California Department of Forestry and Fire Protection's Fire Hazard Severity Zones maps, none of the Project components are located within moderately, highly, or very highly susceptible to

wildland fire (CAL FIRE 2007). The area surrounding the Project site are fully urbanized and developed, and not subject to landslides, slope instability, or wildfire risks. In addition, the proposed Project would not result in the installation or maintenance of habitable structures, roads, fuel breaks, emergency water sources, or power lines.

3.21 Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☒	☐	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

Impact Analysis

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

Impacts for All Project Components

Less-Than-Significant Impact With Mitigation Incorporated. The Project components are located in fully developed and urbanized portions of the cities of Santa Monica and Los Angeles. As described in Section

3.4, Biological Resources, the Project components do not currently support substantial wildlife or fish habitat, fish or wildlife populations, or plant and wildlife communities. Due to the existing surroundings and developed condition of the Project area, the potential to substantially reduce the number or restrict the range of a rare or endangered plant or animal is low. The ornamental vegetation at the Well Field and the Arcadia WTP do not constitute a contiguous plant community and do not provide habitat for native wildlife species. Thus, the proposed Project would not substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number of a rare or endangered plant or animal, or restrict the range of a rare or endangered plant or animal. The proposed SM-11i would require the removal of up to 9 trees within Ishihara Park and the Arcadia WTP Expansion would result in the removal of 8 on-site trees. Therefore, direct impacts to nesting birds could result from removal of potential nesting and foraging habitat. Thus, the proposed Project would implement MM-BIO-1 to ensure potential impacts to nesting birds from construction-related activities would be less than significant.

Additionally, as addressed in Section 3.5, Cultural Resources, the proposed Project would not have the potential to eliminate important examples of the major periods of California history or prehistory. If unanticipated discoveries of archaeological resources were encountered, impacts to encountered resources could be potentially significant. However, with the implementation of a WEAP training under MM-CUL-1, implementation of MM-CUL-2 for the inadvertent discovery of archaeological resources, and archaeological monitoring under MM-CUL-3, potentially significant impacts to archaeological resources would be reduced to less-than-significant levels. Therefore, impacts would be less than significant with MM-CUL-1 through MM-CUL-3 incorporated. The proposed Project would not eliminate important examples of the major periods of California history. Therefore, implementation of the proposed Project would result in less than significant impacts with mitigation incorporated on sensitive species and important examples of California history.

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

Impacts for All Project Components

Less-Than-Significant Impact With Mitigation Incorporated. One project identified by the City's cumulative project list is located adjacent to a portion of the proposed Olympic Pipeline alignment (1342 Berkeley Street), which proposes an 8-unit affordable housing project. In an effort to determine whether or not the proposed Project's potential impacts are cumulatively considerable, a City-wide approach was used to consider anticipated growth in the City, and the proposed 8-unit affordable housing project at 1342 Berkeley Street was used to consider site-specific cumulative impacts.

The proposed Project would result in potentially significant Project-level impacts involving air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, noise, and transportation. However, in all cases, mitigation measures have been identified that would reduce these impacts to a less-than-significant level. As addressed throughout this IS/MND, the proposed Project would have no impact, a less than significant impact, or a less than significant impact with mitigation incorporated with respect to all environmental impact areas. Cumulative impacts of several resource areas have already been addressed in several individual resource sections, including Section 3.3, Air Quality; Section 3.8, Greenhouse Gas Emissions; Section 3.13,

Noise; and Section 3.17, Transportation. CalEEMod was used to assess the air quality and GHG emissions impacts resulting from the proposed Project, concluding less than significant impacts.

The proposed Project would incorporate mitigation measures as described in Section 3.13, Noise, to ensure compliance with applicable noise standards. With incorporation of the mitigation measures described in Section 3.13, the proposed Project would not contribute to cumulative exceedances of noise standards, and its incremental effect would not be cumulatively considerable. SMMC Section 4.12.070 does have a vibration threshold with respect to perception without instrument. Therefore, construction vibration impacts resulting from the proposed Project and the nearby 8-unit affordable housing project would not be cumulatively considerable. Traffic assessments conducted as part of this IS/MND considered cumulative increases in traffic and concluded that cumulative impacts would be less than significant. Some of the other resource areas (i.e., Section 3.1, Aesthetics; Section 3.2, Agricultural and Forestry Resources; Section 3.10, Hydrology and Water Quality; Section 3.11, Land Use and Planning; Section 3.12, Mineral Resources; Section 3.14, Population and Housing; Section 3.15, Public Services; Section 3.16, Recreation; and Section 3.19, Utilities and Services Systems) were determined to have a less than significant or no impact when compared to existing conditions, and thus, the proposed Project would not contribute to cumulative impacts related to these environmental topics. Other issues areas (i.e., Section 3.5, Cultural Resources; Section 3.7, Geology and Soils; Section 3.9, Hazards and Hazardous Materials; Section 3.18, Tribal Cultural Resources; and Section 3.20, Wildfire) are by their nature site-specific, and impacts at one location do not add to impacts at other locations or create additive impacts.

Additionally, because the proposed Project would not create new housing opportunities or additions in employment (see Section 3.13, Population and Housing), the proposed Project would not cumulatively contribute to population-driven impacts (such as population and housing, utilities, public recreation facilities, and public services). All reasonably foreseeable future development in the City would be subject to the same land use and environmental regulations that have been described throughout this document.

Furthermore, all development projects are guided by the policies identified in the City's General Plan and by the regulations established in the SMMC. Therefore, compliance with applicable land use and environmental regulations would ensure that environmental effects associated with the proposed Project do not combine with effects from reasonably foreseeable future development in the City to cause cumulatively considerable significant impacts. Cumulative impacts would therefore be less than significant with mitigation incorporated.

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

Impacts for All Project Components

Less-Than-Significant Impact With Mitigation Incorporated. As evaluated throughout this document, with the incorporation of mitigation associated with to air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, noise, and transportation, environmental impacts associated with the proposed Project would be reduced to less than significant levels. Specifically, mitigation measures related to air quality would require all 50-horsepower or greater diesel-powered equipment is powered with CARB-certified Tier 4 Interim engines to reduce on-site emissions of PM_{10}. In addition, a hazardous material contingency plan will be developed that addresses the potential contamination associated with installation of the proposed wells (MM-HAZ-1). Further, MM-TRA-1 requires a Project-specific TCP to reduce short-term transportation-related hazards. Therefore, the proposed Project would not directly or indirectly cause substantial adverse effects on human beings.

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4.2 List of Preparers

City of Santa Monica

Omeed Pour, P.E., Project Manager
Sunny Wang, P.E., Water Resources Manager
Rachel Kwok, Environmental Planner

Dudek

Kristin Starbird, Project Manager
Sabrina Alonso, Environmental Analyst
Jennifer Reed, Air Quality, Greenhouse Gas, and Energy
Samantha Murray, Historic Resources
Linda Kry, Cultural Resources
Eilleen Salas, Biological Resources
Perry Russell, Geology and Soils
Ryan Munnikus, Geology and Soils
Michael Williams, Geology and Soils (Paleontological Resources)
Glenna McMahon, Hazards and Hazardous Materials
Audrey Herschberger, Hazards and Hazardous Materials
Susie Smith, Hazards and Hazardous Materials
Mark Storm, Noise
Sabita Tewani, Transportation
Chris Starbird, GIS Technician

5 Responses to Comments on the Public Review Draft IS/MND

An IS/MND was prepared for the proposed Project In recognition of the COVID-19 pandemic, the City provided an extended 60-day public review period, exceeding the minimum 30 days specified by the CEQA Guidelines Section 15073. The public review period for the Draft IS/MND began on July 6, 2020, and concluded on September 4, 2020. In accordance with the CEQA Guidelines, Section 15074(b) (14 CCR 15074[b]), before approving the Project, the City, as the lead agency under CEQA, will consider the IS/MND with any comments received during this public review period. Specifically, Section 15074(b) of the CEQA Guidelines (14 CCR 15074[b]) states the following:

> Prior to approving a project, the decision-making body of the lead agency shall consider the proposed negative declaration or mitigated negative declaration together with any comments received during the public review process. The decision-making body shall adopt the proposed negative declaration or mitigated negative declaration only if it finds on the basis of the whole record before it (including the initial study and any comments received), that there is no substantial evidence that the project will have a significant effect on the environment and that the negative declaration or mitigated negative declaration reflects the lead agency's independent judgment and analysis.

The agencies and individuals that provided substantive written comments on the environmental issues addressed within the Draft IS/MND during the public review period are listed in Table 5-1. Although CEQA (California Public Resources Code, Section 21000 et seq.) and the CEQA Guidelines (14 CCR 15000 et seq.) do not explicitly require a lead agency to provide written responses to comments received on a proposed IS/MND, the lead agency may do so voluntarily. Individual comments within each communication are numbered so comments can be cross-referenced with the responses in following this section.

Table 5-1. Comment Letter Summary

Letter Number	Commenter	Date
Agencies		
1	California Department of Transportation Miya Edmonson, IGR/CEQA Branch Chief	August 24, 2020
2	Los Angeles County Metropolitan Transportation Authority Shine Ling, AICP, Manager, Transit Oriented Communities	September 4, 2020
Individuals		
3	Zimtar	August 3, 2020
4	Christine Parra	August 4, 2020
5	Marlene Suzuki	August 5, 2020
6	Marcia Zimmer	August 8, 2020
7	Mathew Davies	August 20, 2020

Copies of the comment letters showing the bracketed and numbered comments are provided below and responses to the comments are provided following each comment letter to further supplement, clarify, or expand upon information already presented in the Draft IS/MND. These responses do not change the significance determinations made or the severity of potential environmental impacts evaluated in the Draft IS/MND. Section 15073.5(c)(4) of the CEQA Guidelines (14 CCR 15073.5[c][4]) permits the inclusion of new information within an MND if the additional information "merely clarifies, amplifies, or makes insignificant modifications to the negative declaration."

Comment Letter 1

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY Gavin Newsom, Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 7 – Office of Regional Planning
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-0475
FAX (213) 897-1337
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life.

August 24, 2020

Omeed Pour
City of Santa Monica
1685 Main Street
Santa Monica, CA 90401

RE: Olympic Well Field Restoration and Arcadia Treatment Plant Expansion (MND)
SCH # 2020070129
GTS # 07-LA-2020-03309
Vic. LA-10/PM: R4.083

Dear Omeed Pour:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced MND. The proposed Project involves: (1) restoration of the Olympic Well Field's pumping capacity through completion of two injection wells and two production wells to reduce reliance on imported water supplies; (2) conveyance of the groundwater via a dedicated pipeline to the existing Arcadia Water Treatment Plant (WTP); and (3) construction of an Olympic Advanced Water Treatment Facility and upgrades to the Arcadia WTP with a reverse osmosis concentrate treatment technology to enhance production efficiency. Upon project completion, the overall raw water treatment capacity of the Arcadia WTP would be expanded by 3 million gallons per day. The City of Santa Monica is the Lead Agency under the California Environmental Quality Act (CEQA). 1-1

The project is located near Interstate 10 (I-10) and Interstate 405 (I-405). According to the MND, "The nearest ramp interchange with I-10 is at Cloverfield Boulevard and 20th Street to the west of the proposed Project and at Centinela Avenue to the east of the proposed Project." The MND also states, "The nearest ramp interchange with I-405 is at Wilshire Boulevard, approximately a mile east of the Arcadia WTP facility." 1-2

From reviewing the MND, Caltrans does not expect project approval to result in a direct adverse impact to the existing State transportation facilities. 1-3

The following information is included for your consideration.

The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. Furthermore, Caltrans encourages Lead Agencies to implement Transportation Demand Management (TDM) strategies that reduce Vehicle Miles Traveled (VMT) and Greenhouse Gas (GHG) emissions. For such TDM options, please refer to: 1-4

- The 2010 *Quantifying Greenhouse Gas Mitigation Measures* report by the California Air Pollution Control Officers Association (CAPCOA), available at http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf, or
- *Integrating Demand Management into the Transportation Planning Process: A Desk Reference*

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

(Chapter 8) by the Federal Highway Administration (FHWA), available at https://ops.fhwa.dot.gov/publications/fhwahop12035/index.htm.

1-1 Cont.

Also, any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit. Caltrans recommends that the project limit construction traffic to off-peak periods to minimize the potential impact on State facilities. If construction traffic is expected to cause delays on any State facilities, please submit the construction Traffic Control Plan detailing these delays for Caltrans' review.

1-5

Finally, any project work done on or near Caltrans right-of-way might require an encroachment permit. This decision will be subject to additional review by Caltrans' Office of Permits.

1-6

If you have any questions about these comments, please contact Emily Gibson, the project coordinator, at Emily.Gibson@dot.ca.gov, and refer to GTS # 07-LA-2020-03309.

1-7

Sincerely,

Miya Edmonson

MIYA EDMONSON
IGR/CEQA Branch Chief
cc: Scott Morgan, State Clearinghouse

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

Response to Comment Letter 1

California Department of Transportation
Miya Edmonson, IGR/CEQA Branch Chief
August 24, 2020

1-1 Thank you for your comment on the proposed Project. This comment correctly restates the Project Overview, provided in Section 1.1, Project Overview, of the Draft IS/MND.

1-2 This comment correctly summarizes and repeats text from the existing setting of Section 3.17, Transportation, of the Draft IS/MND.

1-3 The commenter indicates that the California Department of Transportation (Caltrans) does not expect Project approval to result in a direct adverse impact to existing state transportation facilities. Because the comment does not raise significant environmental issues, no further response is required or provided.

1-4 Caltrans encourages the lead agency to implement Transportation Demand Management strategies that reduce vehicle miles traveled (VMT). The comment refers the City to the 2010 Quantifying Greenhouse Gas Mitigation Measures report by the California Air Pollution Control Officers Association and the Integrating Demand Management into the Transportation Planning Process: A Desk Reference (Chapter 8) by the Federal Highway Administration. As discussed in Section 3.17 of the Draft IS/MND, the proposed Project would not develop a new temporary or permanent land use. Therefore, only negligible vehicle trips would be required for periodic maintenance activities. Construction of the proposed Project would result in a temporary increase in local trips and associated VMT as a result of construction-related workforce trips and material deliveries and construction activities occurring within the public right-of-way. However, due to the temporary nature of construction, the proposed Project would not induce long-term VMT impacts.

1-5 The comment states that any transportation of heavy construction equipment and/or materials that requires use of oversized transport vehicles will require a permit. As discussed in Section 3.3, Air Quality, of the Draft IS/MND, heavy vehicle trips, including haul trucks, would occur during the construction process. The City will coordinate with Caltrans on any necessary permits if the use of oversized transport vehicles is required. Further, if construction traffic is expected to cause delays on any state facilities, the City will submit the Project-specific Traffic Control Plan, as required in Mitigation Measure (MM) TRAF-1 in Section 3.17(c) of the Draft IS/MND.

1-6 The Project does not involve any work done on or near Caltrans right-of-way. Therefore, the City would not require an encroachment permit from Caltrans.

1-7 The City will contact the referenced contact in the event there are any further questions.

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Comment Letter 2

Los Angeles County
Metropolitan Transportation Authority
One Gateway Plaza
Los Angeles, CA 90012-2952
213.922.2000 Tel
metro.net

Metro

September 4, 2020

Mr. Omeed Pour
City of Santa Monica
Public Works Department
1685 Main Street
Santa Monica, CA 90401
Sent by Email: omeed.pour@smgov.net

RE: Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project
Initial Study/Mitigated Negative Declaration (IS/MND)

Dear Mr. Pour:

Thank you for coordinating with the Los Angeles County Metropolitan Transportation Authority (Metro) regarding the proposed Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project (Project) located in the City of Santa Monica and City of Los Angeles (City). Metro is committed to working with local municipalities, developers, and other stakeholders across Los Angeles County on transit-supportive developments to grow ridership, reduce driving, and promote walkable neighborhoods. 2-1

Per Metro's area of statutory responsibility pursuant to sections 15082(b) and 15086(a) of the Guidelines for Implementation of the California Environmental Quality Act (CEQA: Cal. Code of Regulations, Title 14, Ch. 3), the purpose of this letter is to provide the City with specific detail on the scope and content of environmental information that should be included in the Initial Study/ Mitigated Negative Declaration (IS/MND) for the Project. Effects of a project on transit systems and infrastructure are within the scope of transportation impacts to be evaluated under CEQA.[1] 2-2

In addition to the specific comments outlined below, Metro is providing the City with the Metro Adjacent Development Handbook (attached), which provides an overview of common concerns for development adjacent to Metro right-of-way (ROW) and transit facilities, available at www.metro.net/projects/devreview/. 2-3

Project Description
The Project includes (1) restoration of the Olympic Well Field's pumping capacity through completion of two new injection wells and two new production wells to reduce reliance on imported water supplies; (2) conveyance of the groundwater via a new dedicated pipeline to the existing Arcadia Water Treatment Plant (WTP); and (3) construction of a new Olympic Advanced Water Treatment Facility 2-4

[1] See CEQA Guidelines section 15064.3(a); Governor's Office of Planning and Research Technical Advisory on Evaluating Transportation Impacts In CEQA, December 2018, p. 19.

Page 1 of 3

and upgrades to the Arcadia WTP with an innovative reverse osmosis concentrate treatment technology to enhance production efficiency.

2-4 Cont.

Recommendations for MND Scope and Content

Light Rail Adjacency

1. Rail Operations: The Metro E Line (Expo) currently operates weekday peak service as often as every six minutes in both directions. Trains may operate in and out of revenue service, 24 hours a day, seven days a week, in the ROW adjacent to the Project area.

2-5

2. Impact Analysis: Due to the Project's proximity to the E Line (Expo), the MND must analyze potential effects on light rail operations and identify mitigation measures or project design features as appropriate. Critical impacts to be studied should include (without limitation): impacts of Project construction and operation on and potential damage to the structural and systems integrity of tracks and related infrastructure; disruption to light rail service; and rail crossing safety for pedestrians and vehicles. Specific impacts that should be studied include:

2-6

    a. Disturbance to Light Rail infrastructure: As noted on MND page 22, the Project would include excavation and construction that may impact subterranean utilities supporting Metro Rail operations.

2-7

    b. Rail Crossings: Project Wells SM-10i and SM-8 (with associated new pipeline) are located near active rail crossings (at Olympic/26th St. and Olympic/Stewart, respectively). Construction traffic may impact vehicle and pedestrian safety at these intersections.

2-8

The following provisions should be used to develop mitigation measures and/or project design features that address these potential impacts:

2-9

    c. Technical Review: The City shall provide construction work plans and methods (including any crane placement and radius) and traffic control plan to Metro for review in order to evaluate any impacts to the Metro E Line (Expo) infrastructure in relationship to the Project.

    d. Construction Safety: The construction and operation of the Project shall not disrupt the operation and maintenance activities of the Metro E Line (Expo) or the structural and systems integrity of Metro's light rail infrastructure. Not later than two months before Project construction, the City shall contact Metro to schedule a pre-construction meeting with all Project construction personnel and Metro Real Estate, Construction Management, and Construction Safety staff. During Project construction, the City shall:

2-10

        i. Submit a Traffic Control Plan and coordinate with Metro to ensure traffic safety at the rail crossing intersections at Olympic/26th and Olympic/Stewart.

        ii. Contact Metro DigAlert staff to identify and mark locations of any underground utilities serving Metro operations.

        iii. Work in close coordination with Metro to ensure that Station access, visibility, and structural integrity are not compromised by construction activities or permanent build conditions;

iv. Notify Metro of any changes to construction activities that may impact the use of the ROW;

v. Permit Metro staff to monitor construction activity to ascertain any impact to the E Line (Expo).

2-10 Cont.

If you have any questions regarding this letter, please contact me by phone at 213-922-2671, by email at DevReview@metro.net, or by mail at the following address:

Metro Development Review
One Gateway Plaza
MS 99-22-1
Los Angeles, CA 90012-2952

2-11

Sincerely,

Shine Ling, AICP
Manager, Transit Oriented Communities

Attachments and links:

- Adjacent Development Handbook: https://www.metro.net/projects/devreview/

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Response to Comment Letter 2

Los Angeles County Metropolitan Transportation Authority
Shine Ling, AICP, Manager, Transit Oriented Communities
September 4, 2020

2-1 Thank you for your comment pursuant to the proposed Project. This comment provides introductory remarks that do not raise significant environmental issues; therefore, no further response is required or provided.

2-2 This comment provides the purpose of the comment letter. As stated, its purpose is to provide the City with specific detail on the scope and content of environmental information that should be included in the IS/MND. The comment does not raise an issue regarding the adequacy of the Draft IS/MND; therefore, no further response is required or provided.

2-3 The City confirms that the Metropolitan Transportation Authority (Metro) provided the Metro Adjacent Development Handbook to the City.

2-4 This comment correctly summarizes the proposed Project.

2-5 This comment lists the hours and frequency of operation of the Metro Exposition Line (E Line) and states that the Metro E Line operates in the right-of-way (ROW) adjacent to the Project area. as described in Section 2.2.1, Olympic Well Field Restoration, of the Draft IS/MND. As stated in the Draft IS/MND, "The E Line rail tracks are within 100 feet of SM-10i and SM-8, and within 300 feet of SM-9. Well SM-8 would be located approximately 1,400 feet east of SM-10i and west of the intersection of Olympic Boulevard and Stewart Street near the 26th Street Arts Center in the City of Santa Monica."

2-6 The commenter states that the MND must analyze the effects on light rail operations and identify mitigation measures or project design features, as appropriate. The Draft IS/MND analyzed the effects of the Metro E Line in accordance with Appendix G of the CEQA Guidelines. As discussed in Section 3.17, Transportation, of the Draft IS/MND, under threshold a:

> The Metro Light Rail E Line provides regional rail service in close proximity to the Well Field. Metro Light Rail E Line operates every 6-12 minutes. Additionally, the Big Blue Bus and Metro provide bus service close to all three Project components. The majority of these lines have service frequency or headways of 30 minutes or less, with peak-hour headways of 8 to 15 minutes. The construction of the proposed Project would not disrupt existing rail/bus service nor would it require the relocation of existing bus stops. No new employees would be generated by the proposed Project, and only negligible vehicle trips would be required for periodic maintenance activities. As such, no long-term operational impacts related to transit, roadway, bicycle, and pedestrian facilities are anticipated with the proposed Project.

Additionally, as shown on Figure 1, Project Location and Regional Vicinity, none of the Project components would cross the Metro E Line; therefore, the Project would not disrupt the existing light rail operations. Negligible operational vehicle trips would be associated with the proposed Project. Therefore, operations of the proposed Project would not affect light rail operations.

The comment further states that critical impacts to be studied should include Project construction and operation on, and potential damage to the structural integrity of, the tracks and related infrastructure; disruption to light rail service; and rail crossing safety for pedestrians and vehicles. The closest Project components to the Metro E Line include Santa Monica Well (SM) 10i, SM-8, and SM-9. As shown on Figures 2A, 2B, and 2C, the temporary staging areas and demolition area would remain within the median on Olympic Boulevard. Additionally, Olympic Boulevard travel lanes provide an additional buffer between the Project components and the Metro E Line. As previously discussed, none of the Project components cross the Metro E Line; therefore, construction would not impact the structural integrity of the track and related infrastructure, disrupt light rail service, or impact rail crossing for pedestrians and vehicles. Because of the intervening roadway and because Project components do not approach the Metro E Line, no impacts to the E Line would occur from construction and operation of the Project.

2-7 This comment is related to the Project's excavation and construction and its potential to impact subterranean utilities supporting Metro Rail operations. Specifically, the comment refers to page 22 of the Draft IS/MND, which is discussing the Olympic Pipeline. As discussed in Section 2.5.2, Olympic Pipeline, under the Olympic Pipeline Construction heading, "Trenching within the public right-of-way would require approximately 4.5-feet wide open trenching through the length of the streets, with the possibility of horizontal directional drilling or jack and bore construction, which allow for subterranean pipeline construction, at the intersections to minimize traffic disruptions during construction. The maximum depth for this Project component at some areas would go under an existing utility at about 8 feet to the bottom of trench. Other than those isolated areas the depth varies anywhere from 4.5 feet to 6 feet." These activities would occur more than 1,000 feet north of the Metro Rail operations, with intervening roadways and land uses. Therefore, construction of the Olympic Pipeline would not impact subterranean utilities supporting Metro Rail operations.

Although this is not specified in the comment, the City acknowledges that Well SM-8 would result in the construction of 500 linear feet of a new 12-inch-diameter pipeline within the Olympic Boulevard median, approximately 100 feet from the Metro E Line. The well completion activities for Well SM-8 would involve disturbance of approximately 7,600 square feet of soils within the Olympic Boulevard median to accommodate the 1-foot-deep concrete slab. The maximum depth of excavation would not be greater than 5 feet. These activities would remain in the Olympic Boulevard median and would not be adjacent to or underneath the existing Metro E Line. Further, per the Metro Adjacent Development Handbook, excavation near Metro ROW has the potential to disturb existing infrastructure within the geotechnical foul zone, which is defined as the area below a trackway measured from a 45° angle from the edge of the rail track blast. Given the relatively shallow excavation of the new 12-inch-diameter pipeline associated with SM-8 and the 100-foot distance between the rail line and the pipeline, the proposed Project is not expected to impact subterranean utilities supporting Metro Rail operations.

During the design phase of the Project, the City will perform due diligence to accurately map all known underground utilities within the Project construction footprint. Furthermore, the construction contractor for the proposed Project is required to conduct a survey for utility infrastructure prior to commencement of trenching activities. The Contractor is legally required to contact Digalert at least 48 hours prior to commencing excavation. Digalert will then have all underground facilities marked out in the field. The Contractor will pothole and physically confirm the location and depth of all conflicting utilities, and will construct their improvements in a manner to avoid impacting these utilities.

2-8 The commenter states that due to the proximity of SM-10i and SM-8, construction traffic may impact vehicle and pedestrian safety at the Olympic Boulevard/26th Street and Olympic Boulevard/Stewart Street intersections. As discussed in Section 3.17 of the Draft IS/MND, the City shall develop and implement a Project-specific Traffic Control Plan (TCP) as part of MM-TRAF-1. The City will coordinate with Metro, as appropriate, during the preparation of the TCP to ensure that construction traffic does not impact vehicle and pedestrian safety.

2-9 The commenter recommends that the City provide construction work plans and methods and TCP to Metro for review of potential impacts to the Metro E Line. The City will coordinate with Metro to ensure that no impacts to the Metro E Line occur.

2-10 The commenter recommends that the City develop mitigation measures and/or project design features to address potential impacts to Metro infrastructure. Specifically, this measure is related to construction coordination with Metro through submitting the TCP and contacting Metro DigAlert Staff to identify and mark locations of underground utilities, work with Metro to ensure Station access, notify Metro of any changes to construction activities, and permit Metro staff to monitor construction activity. As discussed throughout the Draft IS/MND, the proposed Project would not result in any significant impacts to Metro facilities, and would mitigate short-term construction impacts related to traffic/ transportation through MM-TRAF-1, which requires preparation of a Project-specific TCP. As further discussed herein, the proposed Project would not result in significant impacts to the Metro E Line due to the distance between the Project site and E Line tracks and structures, the intervening structures and materials, and the relatively shallow excavation activities. Therefore, no additional mitigation measures are required as part of the proposed Project. Nonetheless, the City will coordinate with Metro on construction activities to ensure that the Project does not disrupt the operation and maintenance activities of the Metro E Line.

2-11 The City will contact the referenced contact in the event there are any further questions.

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Comment Letter 3

From: zimtar@aol.com <zimtar@aol.com>
Sent: Monday, August 3, 2020 1:04 AM
To: Omeed Pour <Omeed.Pour@SMGOV.NET>
Subject: Object to Water works in, under and on Ishihara Park

EXTERNAL

Ishihara Park: Do not store pipes or other materials in this park, I officially object to such storage or use even temporarily. Neighbors fought to have this park created and we walk in it everyday. Our children play in the park. There is a garden for neighbors, children and others to grow vegetables. A child care center is just around the block on Delaware Av. The park is named after a neighbor who moved here after serving in a American regiment in World War II. Before that as a teenager he was confined to an internment camp for Japenese families. We had to accept a train yard and Ishihara Park was struggled for to be a salve for the benefit of the City and our community. Store stuff somewhere else. 3-1

I now hear you want to take away 9 trees. Do not take down any trees, we fought to get those trees. You might do your work and storage on the Olympic Blvd grassy center space. We have sacrificed by having the Expo train cleaning, fixing and storage yard; do your best to stay out of our park. 3-2

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Response to Comment Letter 3

Zimtar
August 3, 2020

3-1 The comment presents a general objection to the storage of pipes or other materials at Ishihara Park. As noted in Section 2.2.1, Olympic Well Field Restoration, of the Draft IS/MND, SM-11i may be constructed at the eastern end of Ishihara Park, with staging areas located within Ishihara Park. There are no proposed impacts to the community garden.

The comment provides background on the history of the park. Because the comment does not raise significant environmental issues, no further response is required or provided.

3-2 This comment is related to the potential removal of nine trees at Ishihara Park. The potential removal of trees at Ishihara Park is related to the construction of SM-11i. Additionally, as shown on Figure 2D, Well SM-11i Location and Vicinity, in the Draft IS/MND, the intent of the proposed location and the design is to avoid the removal of trees within the park. However, final construction plans have not been prepared and impacts to one or more trees are possible. Therefore, for the purposes of providing a conservative analysis of impacts, the Draft IS/MND analyzed a worst-case scenario, which would be the removal of all nine trees in the eastern portion of Ishihara Park.

Although it is not further elaborated on in the Draft IS/MND, the City intends to develop an alternative pipeline conveyance for the water generated by the SWIP that would not require injection into the groundwater basin through SM-11i. In October 2017, the Governor approved AB 574 which requires the State Water Board to adopt water recycling criteria for direct potable reuse by December 31, 2023. When criteria for direct potable reuse are adopted by State regulators, the City may pursue direct potable reuse – raw water augmentation instead of moving forward with a second groundwater injection well (SM-11i).

As such, the evaluation of SM-11i has been included in the IS/MND as a contingency in case direct potable reuse options are not feasible. In order to be responsive to community concerns about the avoidance of Ishihara Park, the City will construct SM-11i at Ishihara Park only if other options, such as the conveyance pipeline, are determined to be infeasible. The City will aim to avoid construction of SM-11i, and in the event construction is required, will work through the final design for SM-11i to avoid removal of trees, if feasible. If tree removal is necessary, the City will confer with its Public Landscape division, to determine whether replacement within the park is feasible.

Comment Letter 4

From: Christine Parra <rgenteen2@msn.com>
Sent: Tuesday, August 4, 2020 9:18 PM
To: Omeed Pour
Subject: Water treatment at Ishihara Park

EXTERNAL

Good evening,

Can you please explain what exactly you are doing at Ishihara Park? 4-1

Will the pumps be visible? How much of the park are you removing? Will it be at the east and west sections of the park? 4-2

As I am sure you are aware, the neighbors of Gandara Park fought long and hard for that park after being forced to live with a 24/7 maintenance yard for the Expo line and now the city is going to take it away? 4-3

I have lived in this neighborhood for almost 20 years and I cannot believe how many times I have had to write the city over projects like this that are being dumped in this poor neighborhood! 4-4

Enough is enough!

Christine Parra

Sent from my iPhone

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Response to Comment Letter 4

Christine Parra
August 4, 2020

4-1 The commenter is asking for clarification on activities at Ishihara Park. As discussed in Section 2.2, Project Location, of the Draft IS/MND, "there may be a proposed groundwater injection well SM-11i constructed at the eastern end of Ishihara Park, located north of Exposition Boulevard and west of Dorchester Avenue (2909 Exposition Park)." As further described in Section 2.5.1, Olympic Well Field Restoration, of the Draft IS/MND:

> Well SM-11i would be a groundwater injection well located west of the intersection of Exposition Boulevard and Dorchester Avenue. Well SM-11i would require a new pipeline extension as SM-11i would connect to a planned recycled water pipeline extension from Santa Monica City Yards. Well SM-11i would recharge the Olympic Well Field with purified water from the City's SWIP to maintain sustainable yield levels. This would require export of approximately 285 cubic yards of soil. The well completion activities involve the construction of an aboveground pump enclosure below each at-grade pad, which would contain the well pumping equipment. The maximum depth of excavation would not be greater than 5-feet. Additionally, the construction activities involve new aboveground piping installation and fencing surrounding the aboveground structure. The installation of Well SM-11i could result in the removal of up to nine trees in Ishihara Park.

The potential removal of trees at Ishihara Park is related to the construction of SM-11i. As shown on Figure 2D, Well SM-11i Location and Vicinity, the intent of the proposed location and the design is to avoid the removal of trees within the park. However, final construction plans have not been prepared and impacts to one or more trees is possible. Therefore, for the purposes of providing a conservative analysis of impacts, the Draft IS/MND analyzed a worst-case scenario, which would be the removal of all nine trees in the eastern portion of Ishihara Park.

As discussed in Section 2.1.2, Olympic Well Field Contaminants, of the Draft IS/MND, the Olympic Well Field plays a key role in achieving the City's water self-sufficiency goal because the well field could provide up to 3,200 acre-feet/yr of groundwater; in addition, it is the location where purified water from the City's Sustainable Water Infrastructure Project (SWIP) would be used to recharge the groundwater basin. Although it is not further elaborated on in the Draft IS/MND, the City intends to develop an alternative pipeline conveyance, pending regulatory development for the water generated by the SWIP that would not require injection into the groundwater basin through SM-11i. In October 2017, the Governor approved AB 574 which requires the State Water Board to adopt water recycling criteria for direct potable reuse by December 31, 2023. When criteria for direct potable reuse are adopted by the State regulators, the City may pursue direct potable reuse – raw water augmentation instead of moving forward with a second groundwater injection well (SM-11i).

As such, the evaluation of SM-11i has been included in the Draft IS/MND as a contingency in case direct potable reuse options are not approved. In order to be responsive to community concerns about the avoidance of Ishihara Park, the City will construct SM-11i at Ishihara Park only if other options, such as the conveyance pipeline, are determined to be infeasible. The City will aim to avoid construction of SM-

11i, and in the event construction is required, will work through the final design for SM-11i to avoid removal of trees, if feasible.

4-2 This comment questions whether the pumps would be visible, how much of the park is to be removed, and whether it is the east or west section of the park. As shown on Figure 2D, in the representative injection well photo, the pumps would be visible. Once completed, the well would consist of an aboveground slab and at-grade well equipment arrangement, with an artistic fencing structure constructed around the well site. The well enclosures would be designed by City-commissioned artists to comply with Bergamot Area Plan. Figure 2D also shows the well pad location, which is in the eastern end of the park.

4-3 The City does not propose the removal of Ishihara Park. Figure 2D shows the well pad location, which would affect only a small area within the park.

4-4 This comment expresses disagreement with the proposed Project. Because the comment does not raise significant environmental issues, no further response is required or provided. This comment, and all other public comments, are part of the record that will be considered by the City's decision makers regarding whether to approve the proposed Project.

Comment Letter 5

-----Original Message-----
From: Marlene Suzuki <marlene@thesuzukiteam.com>
Sent: Wednesday, August 5, 2020 5:45 PM
To: SM Engineering <Sm.Engineering@SMGOV.NET>
Cc: Omeed Pour <Omeed.Pour@SMGOV.NET>
Subject: Ishihara park as water reservoir

EXTERNAL

Hello Omeed,

I know you have a lot on your plate as you make plans for Santa Monica. 5-1
I do appreciate all the time and hard work that you put in trying to make Santa Monica the best.
One issue that I have and find not to be fair is taking back the Ishihara Park. We worked so hard as a community to get this for our community. We were given concessions for having the train maintenance yard and Lantana development put into our neighborhood which also houses the trash yard and the freeway. 5-2
Not only taking back the east end of the park, the noise and pollution that we will have to endure will be unbearable.
I'm one of those whom lives within 15 feet of the demolition on Exposition. It will not be possible to live here while this goes on.
My husband who is totally disabled will not be able to sleep.
My daughter has a respiratory problem and this will only make it worse. 5-3
Please think about how you will be hurting others by proceeding as planed.
I believe it would be a better choice for this community if you went through Lantana and Olympic. 5-4
Thank you for reconsidering.

Best,
Marlene Suzuki
(310)748-3991

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Response to Comment Letter 5

Marlene Suzuki
August 5, 2020

5-1 Thank you for your comment pursuant to the proposed Project. This comment provides introductory remarks that do not raise significant environmental issues; therefore, no further response is required or provided.

5-2 The commenter is not supportive of the proposed activities at Ishihara Park. The City does not intend to remove Ishihara Park. As shown on Figure 2D, Well SM-11i Location and Vicinity, the well location would take up only a portion of the eastern end of Ishihara Park.

As discussed in Section 2.1.2, Olympic Well Field Contaminants, of the Draft IS/MND, the Olympic Well Field plays a key role in achieving the City's water self-sufficiency goal because the well field could provide up to 3,200 acre-feet/yr of groundwater; in addition, it is the location where purified water from the City's Sustainable Water Infrastructure Project (SWIP) would be recharged to sustain this pumping rate. Injection Wells SM-10i and SM-11i would recharge the Olympic Well Field with purified water from the City's SWIP to replenish local groundwater supplies and maintain sustainable yield levels. Importantly, environmental impacts associated with the production of the water from the SWIP were covered under a separate environmental analysis prepared pursuant to CEQA; therefore, only the environmental impacts associated with the SM-10i and SM-11i well completion activities and long-term operations of the injection wells are evaluated in the subject Draft IS/MND.

As such, the evaluation of SM-11i has been included in the IS/MND as a contingency in case direct potable reuse options are not feasible. In order to be responsive to community concerns about the avoidance of Ishihara Park, the City will construct SM-11i at Ishihara Park only if other options, such as the conveyance pipeline, are determined to be infeasible. The City will aim to avoid construction of SM-11i, and in the event construction is required, will work through the final design for SM-11i to avoid removal of trees and avoid construction at Ishihara Park, if feasible.

5-3 This comment generally express concerns regarding noise, pollution, and potential impacts to sensitive receptors in proximity to construction at Ishihara Park.

With relation to noise, Santa Monica Municipal Code (SMMC) Section 4.12.110(a) permits construction activity from 8:00 a.m. to 6:00 p.m. on weekdays (Monday to Friday) and 9:00 a.m. to 5:00 p.m. on Saturdays. SMMC 4.12.110(b)(1) permits the noise levels from construction activities, at the receiving location, during these allowable timeframes to be 20 dB louder than the usual standard for the Noise Zone (I [residential], II [commercial], III [industrial]) as defined by SMMC Section 4.12.060(a). While construction noise limits per SMMC Section 4.12.110(b)(2) apply, which allows a maximum instantaneous A-weighted, slow sound pressure level to exceed the decibel limits by 40 dBA for any period of time, and have been used as appropriate herein for the noise assessment, SMMC Section 4.12.110(d) does permit construction noise to exceed these limits but only for a limited duration: 'between the hours of ten a.m. and three p.m., Monday through Friday'.

For Noise Zone I (low-density housing), the construction noise limits per the SMMC are as follows:

- Monday through Friday – 80 A-weighted decibel (dBA) equivalent continuous sound level (L_{eq}) (i.e., 60 dBA [for Noise Zone I, 7:00 a.m. to 10:00 p.m.] + 20 dB [decibels] = 80 dBA) for any 15-minute period during allowable daytime hours
- Saturday – 80 dBA L_{eq} (i.e., 60 dBA [for Noise Zone I, 8:00 a.m. to 10:00 p.m.] + 20 dB = 80 dBA) for any 15-minute period during allowable daytime hours

As required by MM-NOI-1 (provided in Section 3.13[a] of the Draft IS/MND), the City will ensure that construction is conducted in compliance with the applicable local regulations. Nighttime construction of SM-11i is not anticipated. As analyzed in the Draft IS/MND, impacts related to the construction of SM-11i in Ishihara Park would be compliant with the 80 dBA noise limit and impacts would be less than significant. However, for construction of the recycled water pipeline connecting SM-11i to the Santa Monica City Yards, the applicable threshold would be 80 dBA 15-minute L_{eq} at nearby existing residences on the southern side of Exposition Boulevard between Stewart Street and Dorchester Avenue. Pipeline installation along Exposition Boulevard could create temporary noise at levels anticipated either to be compliant with the 80 dBA L_{eq} 15-minute limit or to require a degree of noise mitigation. As such, implementation of MM-NOI-1 would require construction contractor specifications to ensure that all construction activities would result in less than significant noise impacts. Operation of SM-11i would be predicted to yield a noise level at existing residences along Exposition Boulevard that is compliant with the more stringent 50 dBA L_{eq} limit. Therefore, operational noise impacts associated with the Olympic Well Field Restoration component of the Project would be less than significant.

With regard to air quality and pollution, the Draft IS/MND evaluated the proposed Project's potential to expose sensitive receptors to substantial pollutant concentrations. As discussed in Section 3.3, Air Quality, of the Draft IS/MND, proposed construction activities would not generate emissions in excess of site-specific localized significance thresholds for nitrogen dioxide (NO_2), oxides of nitrogen (NO_x), carbon monoxide (CO), and fine particulate matter ($PM_{2.5}$) during construction of all Project components. Therefore, localized impacts of the Project would be less than significant. Additionally, given the negligible amount of Project operational trips, the potential for CO hotspots would be less than significant. Further, the Health Risk Assessment prepared as part of the Draft IS/MND determined that no mitigation measures were required for the Olympic Well Field Restoration component of the Project and that impacts would be less than significant. Therefore, the proposed Project would not result in significant air quality impacts to the nearby residential uses.

5-4 Regarding the commenter's request to find an alternate location for SM-11i, rather than using Ishihara Park, the City has conducted a thorough review of alternate locations. The City screened over 50 siting scenarios initially and selected eight potential locations for a more in-depth analysis for injection well SM-11i. The locations selected for detailed analysis were: 1) a median at San Vicente and 23rd Street, 2) the City Yard Nursery, 3) a location at Broadway and 21st Street, 4) Park Drive Park, 5) Schader Park, 6) Gandara Park, 7) Ishihara Park, and 8) a median near Cloverfield and Olympic. Of the eight sites evaluated in detail, modeling results showed that injecting water at Ishihara Park met regulatory requirements for groundwater recharge and showed the greatest capture of the injected water by groundwater production wells along Olympic Boulevard. In addition to these eight sites, the City also contacted Metro and Lantana adjacent to Ishihara Park, but neither entity had available space to accommodate an injection well.

Additionally, please see Response to Comment 5-2 regarding the condition of approval that will be placed on the proposed Project.

Comment Letter 6

EXTERNAL

Sent from my iPhone

Begin forwarded message:

From: Marcia Zimmer <zimmermarcia2@gmail.com>
Date: August 8, 2020 at 5:37:08 PM PDT
To: omeed.pour@smgiv.net
Subject: Removal of trees in Ishihara Park

I am writing to voice my VERY STRONG OBJECTION to the removal of trees in Ishihara Park. 6-1
I live within a few blocks of the park where I have lived for almost 27 years. 6-2
I was part of the neighborhood group who fought long and hard to have this beautiful park built to protect the neighborhood from the noise and disruption of the nearby train maintenance yard Which was thrust into our neighborhood. 6-3
The neighborhood has been through a lot but we finally have the peace of the park as some consolation. 6-4
The trees are mature and beautiful. Please do not remove them!! 6-5
Surely there is another place to put the pipes, perhaps under the grassy median on Olympic. 6-6

Sent from my iPhone

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Response to Comment Letter 6

Marcia Zimmer
August 8, 2020

6-1 This comment expresses the commenter's objection to the removal of trees in Ishihara Park. The potential removal of trees at Ishihara Park is related to the construction of SM-11i. Additionally, as shown on Figure 2D, Well SM-11i Location and Vicinity, the intent of the proposed location and the design is to avoid the removal of trees within the park. However, final construction plans have not been prepared and impacts to one or more trees are possible. Therefore, for the purposes of providing a conservative analysis of impacts, the Draft IS/MND analyzed a worst-case scenario, which would be the removal of all nine trees in the eastern portion of Ishihara Park.

Although not further elaborated in the IS/MND, the City intends to develop an alternative pipeline conveyance for the water generated by the SWIP that would not require injection into the groundwater basin through SM-11i. *In October 2017, the Governor approved AB 574 which requires the State Water Board to adopt water recycling criteria for direct potable reuse by December 31, 2023. When criteria for direct potable reuse are adopted, the City may pursue direct potable reuse – raw water augmentation instead of moving forward with a second groundwater injection well (SM-11i).*

As such, the evaluation of SM-11i has been included in the Draft IS/MND as a contingency in case direct potable reuse options are not approved. In order to be responsive to community concerns about the avoidance of Ishihara Park, the City will construct SM-11i at Ishihara Park only if other options, such as the conveyance pipeline, are determined to be infeasible. The City will aim to avoid construction of SM-11i, and in the event construction is required, will work through the final design for SM-11i to avoid removal of trees, if feasible.

6-2 The commenter states that they have lived within a few blocks of the park for almost 27 years. The comment does not raise an issue regarding the adequacy of the Draft IS/MND; therefore, no further response is required or provided.

6-3 The commenter describes their role as part of a neighborhood group that fought for the park to be built to protect the neighborhood from the noise and disruption of the nearby maintenance yard. As previously addressed in Response to Comment 6-1, the City will aim to avoid impacts to Ishihara Park. Additionally, based on the analysis included in the Draft IS/MND it was determined that the proposed construction of SM-11i and the recycled water pipeline at Ishihara Park would not significantly increase noise levels in the area during construction and operations. For Noise Zone I (low-density housing), the construction noise limits per the Santa Monica Municipal Code (SMMC) 4.12.110(b)(1) are as follows:

- Monday through Friday – 80 A-weighted decibel (dBA) equivalent continuous sound level (L_{eq}) (i.e., 60 dBA [for Noise Zone I, 7:00 a.m. to 10:00 p.m.] + 20 dB = 80 dBA) for any 15-minute period during allowable daytime hours
- Saturday – 80 dBA L_{eq} (i.e., 60 dBA [for Noise Zone I, 8:00 a.m. to 10:00 p.m.] + 20 dB = 80 dBA) for any 15-minute period during allowable daytime hours

While construction noise limits per SMMC Section 4.12.110(b)(2) apply, which allows a maximum instantaneous A-weighted, slow sound pressure level to exceed the decibel limits by 40 dBA for any period of time, and have been used as appropriate herein for the noise assessment, SMMC Section 4.12.110(d) does permit construction noise to exceed these limits but only for a limited duration:

'between the hours of ten a.m. and three p.m., Monday through Friday'. Impacts related to the construction of SM-11i in Ishihara Park would be compliant with the 80 dBA limit and would be less than significant. However, for construction of the recycled water pipeline connecting SM-11i to the Santa Monica City Yards, the applicable threshold would be 80 dBA 15-minute L_{eq} at nearby existing residences on the southern side of Exposition Boulevard between Stewart Street and Dorchester Avenue. Pipeline installation along Exposition Boulevard could create temporary noise at levels anticipated either to be compliant with the 80 dBA L_{eq} 15-minute limit or to require a degree of noise mitigation. As such, MM-NOI-1 (provided in Section 13[a] of the Draft IS/MND) would implement construction contractor specifications to ensure that all construction activities would result in less than significant noise impacts. Operation of SM-11i would be predicted to yield a noise level at existing residences along Exposition Boulevard that is compliant with the more stringent 50 dBA L_{eq} limit. Therefore, operational noise impacts associated with the Olympic Well Field Restoration component of the Project would be less than significant.

6-4 This comment provides an opinion that does not raise an issue regarding the adequacy of the Draft IS/MND; therefore, no further response is required or provided.

6-5 This comment is related to the removal of trees. Please refer to Response to Comment 6-1 regarding the removal of trees.

6-6 This comment suggests placing the pipes in the median on Olympic. In regard to this alternative location, exploratory drilling for SM-8, SM-9, and SM-10i has already occurred to determine the hydrogeological conditions and the feasibility of installing the permanent wells. Exploratory drilling has not been completed for SM-11i due to the uncertainty that this well location would be required. The other well locations proposed as part of the Olympic Well Field Restoration component of the Project are located in the median on Olympic Boulevard.

Regarding the commenter's request to find an alternate location for SM-11i, rather than using Ishihara Park, the City has conducted a thorough review of alternate locations. The City screened over 50 siting scenarios initially and selected eight potential locations for a more in-depth analysis for injection well SM-11i. The locations selected for detailed analysis were: 1) a median at San Vicente and 23rd Street, 2) the City Yard Nursery, 3) a location at Broadway and 21st Street, 4) Park Drive Park, 5) Schader Park, 6) Gandara Park, 7) Ishihara Park, and 8) a median near Cloverfield and Olympic. Of the eight sites evaluated in detail, modeling results showed that injecting water at Ishihara Park met regulatory requirements for groundwater recharge and showed the greatest capture of the injected water by groundwater production wells along Olympic Boulevard. In addition to these eight sites, the City also contacted Metro and Lantana adjacent to Ishihara Park, but neither entity had available space to accommodate an injection well.

Comment Letter 7

From: Santa Monica Help Line <noreply@user.govoutreach.com>
Sent: Thursday, August 20, 2020 11:09 AM
To: Curtis Castle <Curtis.Castle@SMGOV.NET>
Subject: You have been assigned a new Request #: 5226774

EXTERNAL

Request # 5226774 from the Government Outreach System has been assigned to you by Lizzy Acosta.

Request type: Problem
Request area: Water Issues
Citizen name: Matthew Davies

Description: The Gandara Park neighborhood has very recently been made aware of a Santa Monica Water Department plan that requires the destruction of most or all of our Ishihara Park. As part of the work being done at 30th and Olympic the plan requires a deep well be drilled in Ishihara Park's East end, a pump be built and large pipes be run to the Olympic and 30th site. The idea is to pump slightly polluted water back underground for nature to clean it over time. I can't speak to the logic of that. I can however say that piping the polluted water under the Expo Train line, two large parking lots owned by Lantana and The Golf Channel only to end in a city park is dumb. It looks.... bad. Buying a small area of parking lot from any of the three places would shorten the pipe run, lessen the number of permits required, keep EXPO/The county happy and save our park. 7-1

All of this before we even start to activate our neighbors to speak out on the destruction of the only city location named for an Asian. 7-2

I should also mention the fact that the entire West end of Ishihara Park was taken as a water runoff settling space for the train yard without the knowledge of the residents who attended all of the park design meetings before construction. We had no idea 1/4 of our consolation prize park would be given back to the train project we got the land from in the first place until construction of the park finished. Surprise! With a water leech field at the West end of the park and a big water pump and well at the East end I'm gonna bet our water folks plan to connect the dots with a big pipe since both places do essentially the same thing, but the Eastern well/pump does it faster. That would mean the total destruction of Ishihara Park, leaving it a fenced in mirror of the City Yards just across Stewart. Pipes! I'm sure that image gives the water department guys happy dreams. 7-3

Here's my idea. Buy half an acre of rear parking lot from Lantana. Build your well and pump there. Don't involve EXPO or the county. Leave our badly designed, seldom watered, mess of a park alone. Let our 95+ year old Japanese American neighbors pass in peace, then in 15 years tear the park up to your heart's content. Plus I just bet my idea is cheaper. A win-win-win. 7-4

Matthew Davies
3033 Delaware Ave
SAMOHI class of 1982

If you want to help us more than I think you do Ishihara Park has an excess of cement trash cans. Placing one at the Stewart St. tunnel under the freeway and the other at the Dorchester ped tunnel under the freeway would be fantastic. We don't ask for much. 7-5

1

7-5 Cont.

Thank you.

Expected Close Date: August 10, 2020

Click here to access the request

Note: This message is for notification purposes only. Please do not reply to this email. Email replies are not monitored and will be ignored.

2

Response to Comment Letter 7

Matthew Davies
August 20, 2020

7-1 This comment begins by stating that the proposed Project is a plan that requires the destruction of Ishihara Park. This is not correct—the City does not propose the removal of Ishihara Park. Figure 2D, Well SM-11i Location and Vicinity, in the Draft IS/MND shows the well pad location, which would affect only a small area within the park. Additionally, the commenter incorrectly links the construction of the proposed Project with work at 30th Street. The Project does include work on Olympic Boulevard, but not at 30th Street.

The commenter raises concerns about piping bringing polluted water under the Exposition Line (E Line) and two large parking lots to the Ishihara Park. As described in Section 1.1, Project Overview, of the Draft IS/MND, "The Olympic Well Field Restoration component involves equipping two new injection wells (Santa Monica Well [SM]-10i and SM-11i) and two new domestic groundwater production wells (SM-8 and SM-9) in the Olympic Well Field. Lateral pipeline connections from the groundwater production wells and the injection wells to existing pipelines would be constructed within the public right-of-way. The production wells would connect to the proposed Olympic Pipeline and the injection wells would connect to recycled water pipelines. Additionally, a new recycled water pipeline would connect SM-11i to a planned recycled water pipeline at the Santa Monica City Yards." The proposed injection well at Ishihara Park would not carry polluted water under the E Line and two large parking lots. Rather, as shown on Figure 1, Project Location and Regional Vicinity, of the Draft IS/MND, Production Wells SM-8 and SM-9, located in the Olympic Boulevard median, would carry the contaminated groundwater from the wells via the new untreated water pipeline to the existing Arcadia Water Treatment Plant. These components are located north of the E Line. Additionally, as shown on Figure 1, the recycled water pipeline is located south of the E Line and would carry water to the Santa Monica City Yards, which is also located south of the E Line. The two proposed injection wells, including SM-11i at Ishihara Park, would recharge the Olympic Well Field with purified water from the City's Sustainable Water Infrastructure Project (SWIP) to replenish local groundwater supplies and maintain sustainable yield levels.

Regarding the commenter's request to find an alternate location for SM-11i, rather than using Ishihara Park, the City has conducted a thorough review of alternate locations. The City screened over 50 siting scenarios initially and selected eight potential locations for a more in-depth analysis for injection well SM-11i. The locations selected for detailed analysis were: 1) a median at San Vicente and 23rd Street, 2) the City Yard Nursery, 3) a location at Broadway and 21st Street, 4) Park Drive Park, 5) Schader Park, 6) Gandara Park, 7) Ishihara Park, and 8) a median near Cloverfield and Olympic. Of the eight sites evaluated in detail, modeling results showed that injecting water at Ishihara Park met regulatory requirements for groundwater recharge and showed the greatest capture of the injected water by groundwater production wells along Olympic Boulevard. In addition to these eight sites, the City also contacted Metro and Lantana adjacent to Ishihara Park, but neither entity had available space to accommodate an injection well.

As noted in Section 2.2.1, Olympic Well Field Restoration, of the Draft IS/MND, SM-11i may be constructed at the eastern end of Ishihara Park. In the event that SM-10i alone is not able to recharge the Olympic Well Field to sufficient levels, a second injection well would then be constructed. As such,

SM-11i was included as part of the proposed Project. The City will construct SM-11i would occur only if necessary to recharge the Olympic Well Field.

7-2 This comment states: "All of this before we even start to activate our neighbors to speak out on the destruction of the only city location named for an Asian." Because the comment does not raise significant environmental issues, no further response is required or provided.

7-3 The commenter states that the western end of Ishihara Park was taken as a water runoff settling space for the train yard and that residents were unaware of this until the park was finished. The commenter assumes that this water runoff setting space and the proposed well would connect and result in the destruction of Ishihara Park. The purpose of this component of the Project is described in Response to Comment 7-1. Because the comment does not raise significant environmental issues, no further response is required or provided.

7-4 The commenter suggests building the well and pump in the Lantana parking lot. In regard to alternative locations, exploratory drilling for SM-8, SM-9, and SM-10i has already occurred to determine the hydrogeological conditions and the feasibility of installing the permanent wells. Exploratory drilling has not been completed for SM-11i due to the uncertainty this well location would be required. The other well locations proposed as part of the Olympic Well Field Restoration component of the Project are located in the median on Olympic Boulevard. The City screened over 50 siting scenarios initially and selected eight potential locations for a more in-depth analysis for injection well SM-11i. The locations selected for detailed analysis were: 1) a median at San Vicente and 23rd Street, 2) the City Yard Nursery, 3) a location at Broadway and 21st Street, 4) Park Drive Park, 5) Schader Park, 6) Gandara Park, 7) Ishihara Park, and 8) a median near Cloverfield and Olympic. Of the eight sites evaluated in detail, modeling results showed that injecting water at Ishihara Park met regulatory requirements for groundwater recharge and showed the greatest capture of the injected water by groundwater production wells along Olympic Boulevard. In addition to these eight sites, the City also contacted Metro and Lantana adjacent to Ishihara Park, but neither entity had available space to accommodate an injection well. the City does not have control over the Lantana parking lot, this location would be speculative. Per Section 15145 of the CEQA Guidelines, if a lead agency finds that a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact. For this reason, discussion of locations not owned by the City were eliminated from the analysis.

Although it is not further elaborated on in the Draft IS/MND, the City intends to develop an alternative pipeline conveyance for the water generated by the SWIP that would not require injection into the groundwater basin through SM-11i. In October 2017, the Governor approved AB 574 which requires the State Water Board to adopt water recycling criteria for direct potable reuse by December 31, 2023. When criteria for direct potable reuse are adopted, the City may pursue direct potable reuse – raw water augmentation instead of moving forward with a second groundwater injection well (SM-11i).

As such, the evaluation of SM-11i has been included in the Draft IS/MND as a contingency in case direct potable reuse options are not approved. In order to be responsive to community concerns about the avoidance of Ishihara Park, the City will construct SM-11i at Ishihara Park only if other options, such as the conveyance pipeline, are determined to be infeasible. The City will aim to avoid construction of SM-11i, if feasible.

7-5 This comment discusses issues outside the scope of the proposed Project. Because the comment does not raise significant environmental issues, no further response is required or provided. This comment, and all other public comments, are included in the record that will be considered by the City's decision makers regarding whether to approve the proposed Project.

6 Mitigation Monitoring and Reporting Program

CEQA requires that a public agency adopting an IS/MND take affirmative steps to determine that approved mitigation measures are implemented after project approval. The lead or responsible agency must adopt a reporting and monitoring program for the mitigation measures incorporated into a project or included as conditions of approval. The program must be designed to ensure compliance with the MND during project implementation (California Public Resources Code, Section 21081.6(a)(1)).

This Mitigation Monitoring and Reporting Program (MMRP) shall be used by the City to ensure compliance with adopted mitigation measures identified in the MND for the proposed Project. The City, as the lead agency, will be responsible for ensuring that all mitigation measures are implemented. Implementation of the mitigation measures would reduce impacts to below a level of significance for air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, noise, transportation, and mandatory findings of significance.

The remainder of this MMRP consists of a table that identifies the mitigation measures by resource for each Project component, including: (1) Olympic Well Field Restoration, (2) Olympic Pipeline, (3) Olympic AWTF and Arcadia WTP Expansion. Table 6-1 identifies the mitigation monitoring and reporting requirements, including the entity/entities responsible for verifying implementation of the mitigation measure, timing of verification (prior to, during, or after construction), and responsible party. Space is provided for sign-off following completion/ implementation of the mitigation measure. Along with the MND and related documents, this MMRP shall be kept on file at the following location:

City of Santa Monica
1685 Main Street
Santa Monica, California 90401

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Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
Air Quality							
MM-AQ-1: Prior to the commencement of construction activities at the Arcadia Water Treatment Plant, the City shall require its construction contractor to demonstrate that all 50-horsepower or greater diesel-powered equipment is powered with California Air Resources Board (CARB)-certified Tier 4 Interim engines. An exemption from this requirement may be granted if equipment with Tier 4 Interim engines are not reasonably available and the required corresponding reductions in criteria air pollutant emissions can be achieved from other combinations of construction equipment, such as using equipment with Tier 4 Final engines. Before an exemption may be granted, the City's construction contractor shall: (1) demonstrate that at least two construction fleet owners/operators in Los Angeles County were contacted and that those owners/operators confirmed Tier 4 Interim equipment could not be located within Los Angeles County during the desired construction schedule; and (2) the proposed replacement equipment has been evaluated using CalEEMod and documentation provided to the City to confirm that Project-generated emissions do not exceed applicable localized significance thresholds (LST) for nitrogen dioxide (NO_2), carbon monoxide (CO),	Prior to construction/ Submittal of contractor plans or exemption			X	Construction Contractor	City of Santa Monica Department of Public Works, Water Resources	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and the SCAQMD carcinogenic (cancer) risk threshold. If these requirements cannot be met, construction activities at the Arcadia Water Treatment Plant shall be postponed until CARB-certified Tier 4 Interim engines are available for use.							
MM-AQ-2: Prior to the commencement of construction activities at the Arcadia Water Treatment Plant, the City shall require its construction contractor to water any exposed soils and/or soil stockpiles at least three times daily, or utilize another SCAQMD-approved dust control non-toxic agent in accordance with the manufacturer's specifications, to minimize fugitive dust during construction.	Prior to construction/ Submittal of contractor specifications			X	Construction Contractor	City of Santa Monica Department of Public Works, Water Resources	
Biological Resources							
MM-BIO-1: Commencement of construction activities at the Arcadia Water Treatment Plant and Olympic Well Field shall avoid the February 1 through August 31 bird nesting season to the extent feasible. If construction activities must begin within this nesting season, a survey for nesting birds shall be conducted by a qualified biologist within 7 days before commencement of construction activities. The area surveyed shall include all	Within 7 days before construction/ Submittal of nesting bird survey	X		X	Qualified Biologist	City of Santa Monica Department of Public Works, Water Resources	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
clearing/construction areas, as well as areas within 100 feet of the boundaries of these areas, or as otherwise determined by the biologist. If no active bird nests are identified on, or within 100 feet of the limits of the proposed disturbance area, no further action is necessary and construction activities could commence. If active nests are found during pre-construction surveys or at any time throughout the course of construction activities during the nesting bird season, all clearing/construction activities within a minimum 100 feet of the nest shall be postponed until a wildlife biologist has identified the nesting species. If the bird species is not protected under the Migratory Bird Treaty Act (MBTA) and/or the California Fish and Game Code, no further action is required and construction activities may proceed. If the avian species is protected under the MBTA and/or the California Fish and Game Code, a minimum buffer zone shall be established by the qualified biologist based on the type of bird/raptor species identified and the construction buffer shall be established on site through the erection of cones/flagging/fencing to clearly delineate the protection zone. All construction activities shall avoid this protection zone until a qualified biologist has confirmed that the nest(s) is no							

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
longer active and the nest is vacated, and there is no evidence of second nesting attempts.							
Cultural Resources							
MM-CUL-1: Prior to commencement of construction activities at the Olympic Well Field, Olympic Pipeline, and Arcadia Water Treatment Plant, the City's construction contractor and construction personnel shall attend and complete a Workers Environmental Awareness Program (WEAP) training conducted by a qualified archaeologist. The WEAP training shall provide: (1) the types and characteristics of archaeological materials that may be identified during construction and explain the importance of and legal basis for the protection of significant cultural resources; (2) proper procedures to follow in the event that cultural resources or human remains are uncovered during ground-disturbing activities, including procedures for work curtailment or redirection; and (3) protocols for the contact of the site supervisor and archaeological monitor upon discovery of a resource.	Prior to construction/ Submittal and review of completed WEAP training	X	X	X	Construction Contractor and Qualified Archaeologist	City of Santa Monica Department of Public Works, Water Resources	
MM-CUL-2: If archaeological resources (i.e., sites, features, or artifacts) are exposed during construction activities of any components of the proposed Project at the Olympic Well Field, Olympic Pipeline, and Arcadia Water Treatment Plant, all construction work occurring within 100 feet of	During construction/ Submittal and review of brief letter report of	X	X	X	Construction Contractor and Qualified Archaeologic-al Principal Investigator	City of Santa Monica Department of Public Works, Water Resources	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
the find shall immediately stop until a qualified archaeological principal investigator, meeting the Secretary of the Interior's Professional Qualification Standards for Archaeology, can evaluate the significance of the find and determine whether or not additional study is warranted. This work exclusion buffer may be adjusted based on the recommendation of the archaeological principal investigator. Reservation in place of any unanticipated resource should be considered the preferred approach wherever possible, and the feasibility of avoidance should be discussed with the City prior to moving forward with excavation or other potentially destructive evaluation efforts. Should it be required, temporary flagging may be installed around this resource in order to avoid any disturbances from construction equipment. Depending upon the nature of the find, the archaeological monitor in correspondence with the qualified archaeological principal investigator may simply record the find to appropriate standards (thereby addressing any data potential) and allow work to continue. If the qualified archaeological principal investigator determines the discovery to be potentially significant under California Environmental Quality Act (CEQA) or City regulations, additional efforts in conformance with requirements set	excavations and findings						

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
forth in CEQA Section 21083.2 related to unique archeological resources shall be conducted, such avoidance of the resources, preservation in place, additional testing, and/or data, prior to allowing construction to proceed in the area of the find.							
MM-CUL-3: During construction activities at the Olympic Well Field and Arcadia Water Treatment Plant that require earthwork below five feet or disturbance of native soils, periodic archaeological monitoring shall be conducted. The frequency and duration of the periodic monitoring shall be determined by a qualified archaeological principal investigator based on inspection of exposed subsurface soils and their observed potential to contain intact cultural deposits or material. The archaeological monitor shall have the authority to temporarily halt work to inspect areas as needed for potential cultural material or deposits. In the event that archaeological resources are exposed during construction activities for the proposed Project's MM-CUL-2 shall be followed. The archaeological monitor shall be responsible for maintaining daily monitoring logs during monitoring. Following the completion of construction, an archaeological monitoring report with the results of the cultural monitoring program shall be submitted to the City for review and approval. Once approved, the	Periodically during construction activities that requires disturbance of soils/ Submittal and review of brief letter report documenting periodic monitoring	X		X	City of Santa Monica and Qualified Archaeological Principal Investigator	City of Santa Monica Department of Public Works, Water Resources	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
final report will be filed with the South Central Coastal Information Center.							
Geology and Soil							
MM-GEO-1: Prior to commencement of any grading activity below a depth of five feet at the proposed recycled water pipeline for the Olympic Well Field Restoration, Olympic Pipeline, and Arcadia Water Treatment Plant, the City of Santa Monica shall retain a qualified paleontologist in accordance with the guidelines of the Society of Vertebrate Paleontology (SVP 2010). The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the proposed Project. The PRIMP shall be consistent with the SVP (2010) guidelines and shall outline requirements for preconstruction meeting attendance and worker environmental awareness training, adequate spot-check monitoring within the proposed Project site based on construction plans and/or geotechnical reports, procedures for adequate paleontological spot-check monitoring and discoveries treatment, paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management The PRIMP shall include protocols for spot-checking significant ground-disturbing activities below a depth of five feet below the ground surface or	Prior to construction/ Submittal and review of brief letter report of excavations and findings	X	X	X	City of Santa Monica and Qualified Paleontologist	City of Santa Monica Department of Public Works, Water Resources	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
five feet below the depth of artificial fill in areas mapped as Holocene alluvium. At a minimum, the PRIMP shall require that if paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Upon completion of the paleontological monitoring program, the qualified paleontologist shall prepare a final monitoring report documenting the results of the mitigation program. This report should include discussions of the methods used, stratigraphic section(s) exposed, fossils collected, and significance of recovered fossils.							
Hazards and Hazardous Materials							
MM-HAZ-1: Prior to commencement of Project-related demolition or earth-moving activities at the Olympic Well Field and Olympic Pipeline, a Hazardous Materials Contingency Plan (HMCP) shall be developed and provided to the City for review and approval. The HMCP shall address the potential impacts related to disturbance of potentially contaminated soil, soil vapor and/or	Prior to demolition or construction/ Submittal of hazardous materials contingency plan	X	X		Construction Contractor and Professional Geologist	City of Santa Monica Department of Public Works, Water Resources	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
groundwater. The HMCP shall clearly identify known areas of contamination that overlap with the Project components. The HMCP shall include training procedures for construction crews for the identification, assessment, characterization, management, and proper disposal of hazardous constituents, materials, and wastes, in accordance with all applicable state and local regulations. If impacted soils or groundwater are encountered during excavation activities, the contaminated soils and/or groundwater shall be managed and disposed of in accordance with local and state regulations. The HMCP shall include health and safety measures, which may include periodic work breathing zone monitoring, monitoring for volatile organic compounds using a handheld organic vapor analyzer, and/or other equally effective measures in areas where known contamination is present. The City of Santa Monica or its designee shall implement the HMCP during all construction activities for the proposed Project that require ground disturbance in areas of known contamination, as outlined in the HMCP.							
MM-HAZ-2: Prior to commencement of demolition or construction activities at the Olympic Pipeline or Arcadia Water Treatment Plant, a hazardous materials site survey shall be conducted. The	Prior to demolition or construction/ Submittal of		X	X	Construction Contractor and Hazardous	City of Santa Monica Department of Public	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
survey shall be conducted on the proposed Olympic Pipeline alignment to identify yellow traffic striping (if it is going to be disturbed/removed as part of construction) that may contain lead chromate, and on the Arcadia WTP buildings to be disturbed/demolished for asbestos, lead-based paint, polychlorinated biphenyls, and universal wastes. Following results of the hazardous materials survey, demolition or renovation plans and contract specifications shall incorporate abatement procedures for the removal of materials containing asbestos, lead, lead chromate, polychlorinated biphenyls, and universal waste items, as required. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency, Occupational Safety and Health Administration, California Occupational Safety and Health Administration, and the South Coast Air Quality Management District.	hazardous building materials survey				Materials Surveyor	Works, Water Resources	
Noise							
MM-NOI-1: The City of Santa Monica shall ensure that the construction contractor(s) contract specifications for all Project-related activities at the Olympic Well Field (including the recycled water pipeline), Olympic Pipeline, and Arcadia Water Treatment	Prior to and during construction/ Submittal and review of	X	X	X	Construction Contractor	City of Santa Monica Department of Public	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
Plant include the following requirements during construction activities: • Construction hours must be conducted in compliance with the applicable local regulations for the project component within each jurisdiction with respect to allowable timeframes and days of the week (including weekends and holidays). Noise from construction activities in the City of Santa Monica shall meet the standard of 80 or 85 dBA Leq over any 15-minute period, depending on the SMMC 4.12.060 Noise Zone. Noise from any operating powered equipment associated with the construction activities in the City of Los Angeles shall meet the standard of 75 dBA Leq at 50 feet over any 15-minute period. • Construction-related activities during nighttime hours (as defined by local regulation) would require a permit pursuant to Santa Monica Municipal Code Section 4.12.110 and/or would require permission from the Executive Director on behalf of the Board of Police Commissioners pursuant to Los Angeles Municipal Code Section 41.40(b). • All idling (i.e., engines running) equipment shall be kept to a minimum.	construction scheduling, construction logs, and mitigation measures					Works, Water Resources	

Mitigation Monitoring and Reporting Program Checklist

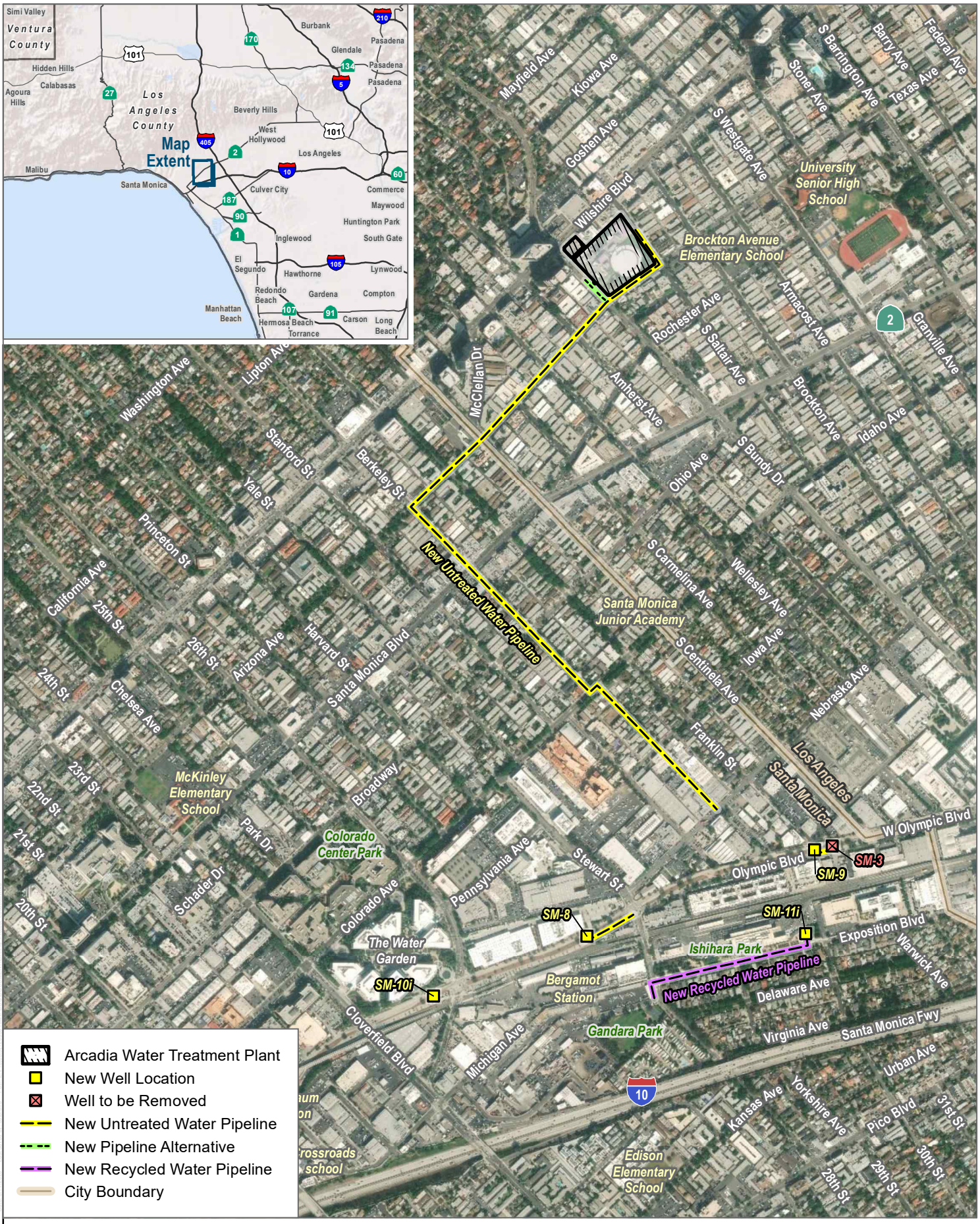
Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
• The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be used for safety warning purposes only. • Communication with local residents shall be maintained prior to and during construction. Specifically, the local residents shall be informed of the schedule, duration, and progress of the construction and shall be provided contact information (e.g., a telephone hotline and/or email address) for noise- or vibration-related complaints. The City shall establish a process to investigate these complaints in a timely manner and, if determined to be valid, detail efforts to provide a timely resolution and response to the complainant—with copy of outcome description documented in a log for the duration of the construction activities. • All noise-producing equipment and vehicles using internal combustion engines shall be equipped with exhaust mufflers (or comparable noise-reducing exhaust flow treatments); air-inlet silencers; and, hoods, shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specifications. Mobile or fixed "package" equipment (e.g., arc-welders, air compressors, generators, etc.) shall be equipped with shrouds and noise							

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
control features that are readily available for that type of equipment. • Usage of construction equipment shall be properly phased, scheduled, and positioned, so that no combination of concurrently operating equipment would cause an exceedance of the noise limit at a receptor location. In addition to the measures listed above, site-specific requirements for activities for the Arcadia WTP also include: Concrete saws anticipated for demolition of existing on-site features (buildings, pavement, concrete slabs, etc.) shall feature commercially-available low-noise blades and portable exterior shrouds (e.g., temporary sound blankets or comparable barriers or enclosures) that can move with the equipment so as to consistently control noise emission from the operating equipment and its impact on the work surface and thereby meet the aforementioned noise limit.							
Transportation							
MM-TRAF-1: Prior to the start of any Project-related construction at the Olympic Well Field and Olympic Pipeline, the City shall develop and implement a Project-specific Traffic Control Plan (TCP). The TCP shall be stamped and signed by	Prior to construction/ Submittal of TCP	X	X		Construction Contractor	City of Santa Monica Community Development Department	

Mitigation Monitoring and Reporting Program Checklist

Mitigation Measure	Timing/ Method of Verification	Project Component			Responsible Party	Monitoring Party	Comments and/or Date Completed
		Olympic Well Field Restoration	*Olympic Pipeline*	*Olympic AWTF & Arcadia WTP Expansion*			
a licensed Traffic Engineer or Civil Engineer in the State of California. The TCP shall be prepared in accordance with applicable regulations and standards, including the California Manual on Uniform Traffic Control Devices, and approved by all regulatory agencies having jurisdiction over the work locations shown in the TCP, including the City of Santa Monica and City of Los Angeles.							
Mandator Findings of Significance							
MM-AQ-1 (See Air Quality in this Table) **MM-AQ-2** (See Air Quality in this Table) **MM-BIO-1** (See Biological Resources in this Table) **MM-CUL-1** (See Cultural Resources in this Table) **MM-CUL-2** (See Cultural Resources in this Table) **MM-CUL-3** (See Cultural Resources in this Table) **MM-GEO-1** (See Geology and Soils in this Table) **MM-HAZ-1** (See Hazards and Hazardous Materials in this Table) **MM-HAZ-2** (See Hazards and Hazardous Materials in this Table) **MM-NOI-1** (See Noise in this Table) **MM-TRA-1** (See Transportation in this Table)	See above	See above	See above	See above	See above	See above	



SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 1

Project Location and Regional Vicinity

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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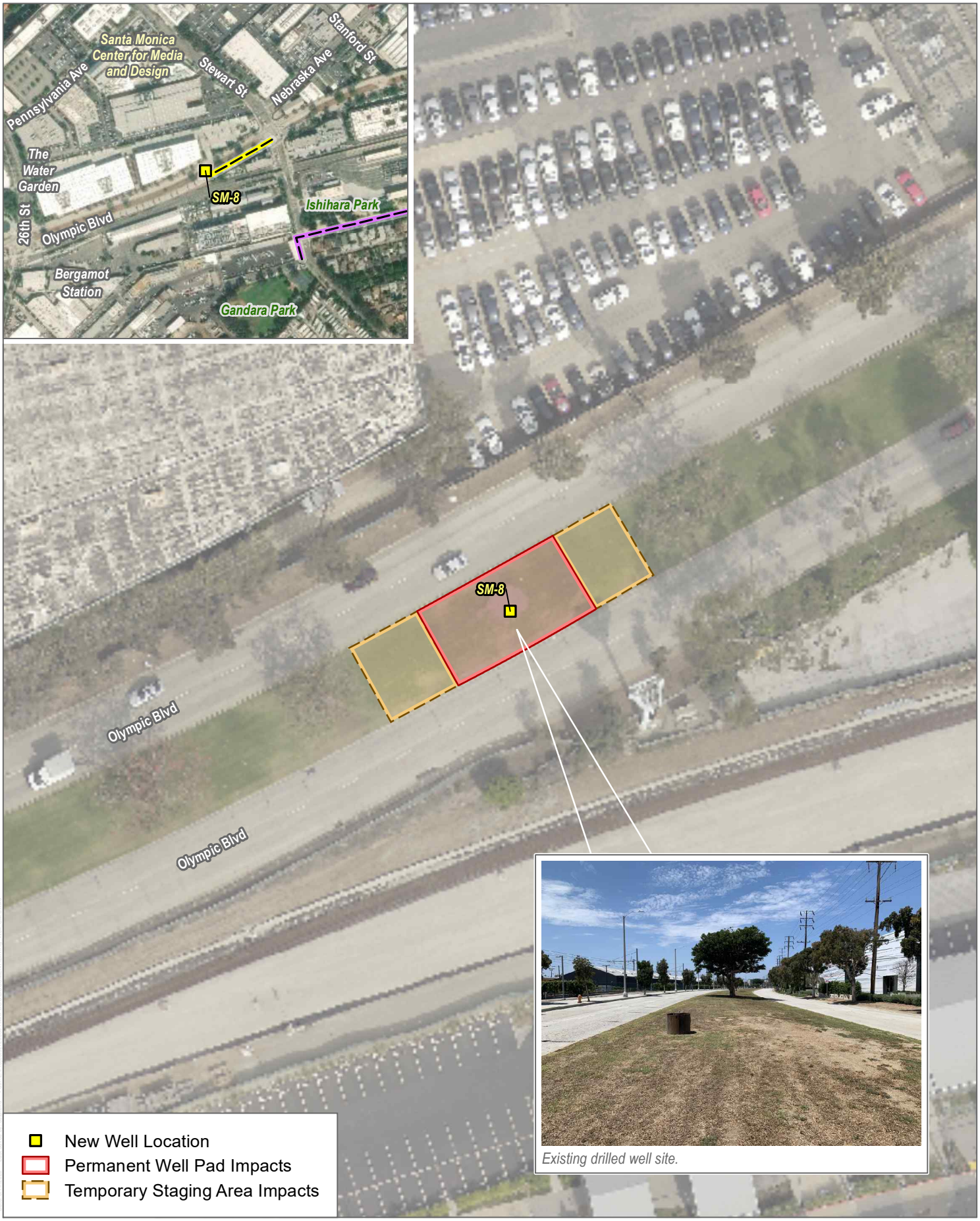

SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 2A

Well SM-8 Location and Vicinity

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 2B

Wells SM-9 and SM-3, Location and Vicinity

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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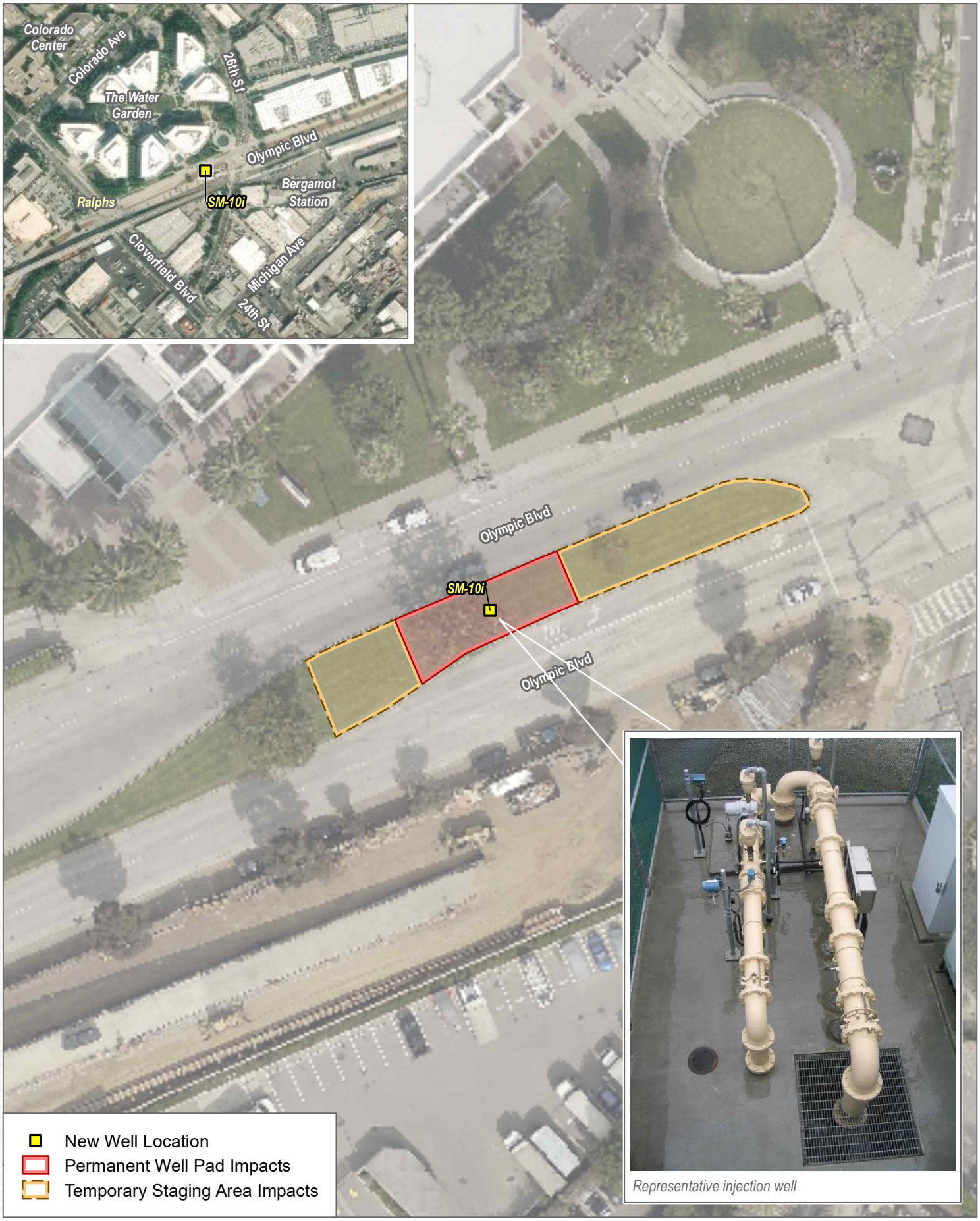

SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 2C

Well SM-10i Location and Vicinity

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 2D

Well SM-11i Location and Vicinity

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 3

Arcadia Water Treatment Plant Site

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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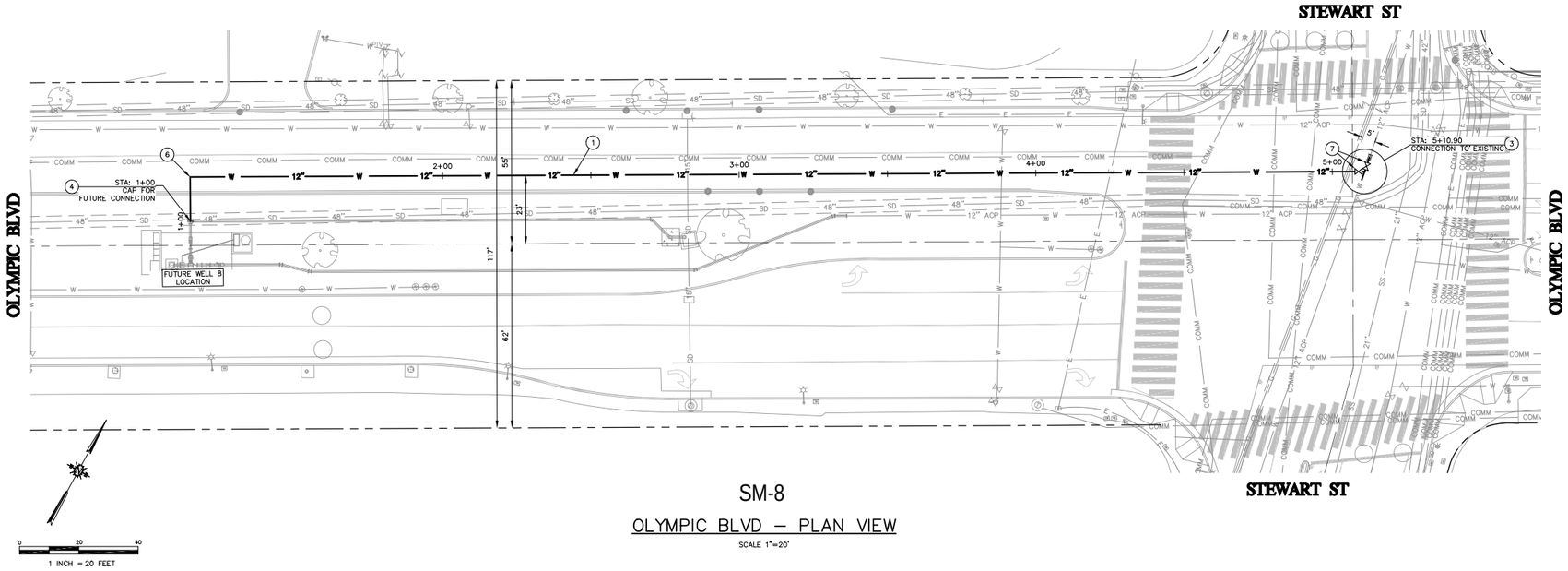


SM-8

OLYMPIC BLVD – PLAN VIEW

SCALE 1"=20'

GENERAL NOTES:

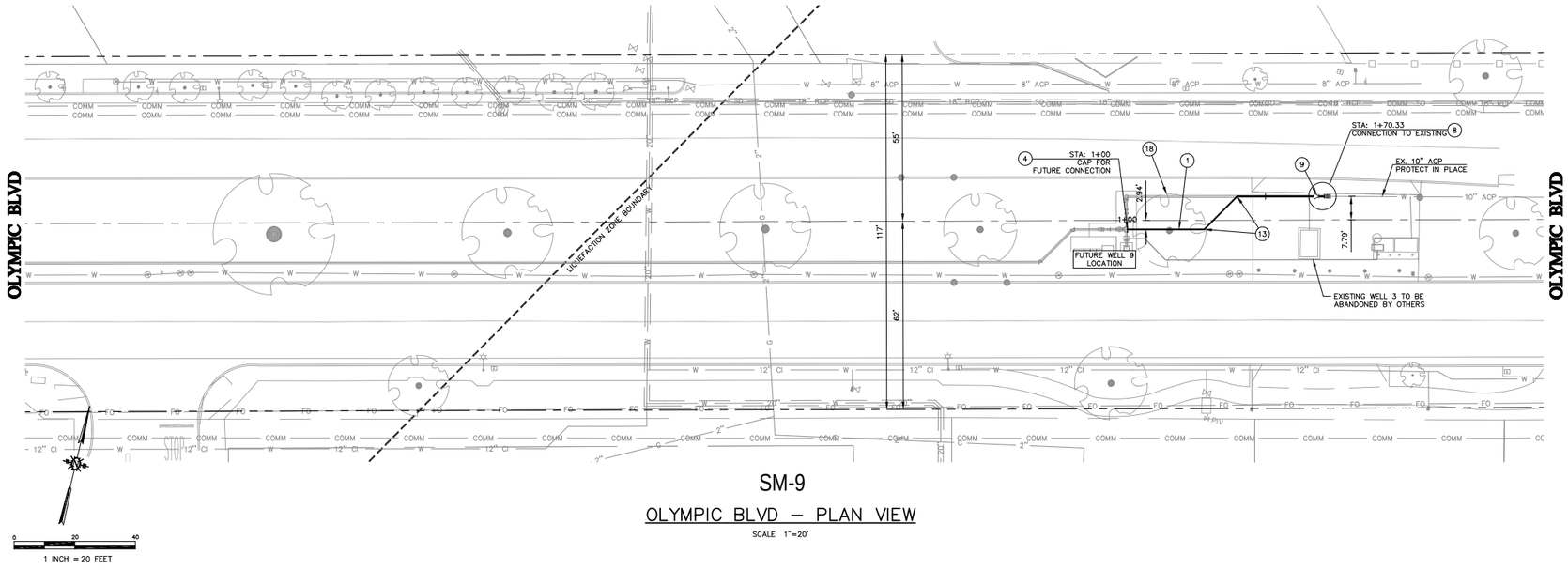
1. ALL EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, LOOP DETECTORS, X-WALKS, STOP BARS, CURB, GUTTER, SIDEWALK, PAVEMENT, BICYCLE LANES, AND LEGENDS DAMAGED AS A RESULT OF CONTRACTOR'S WORK SHALL BE REPLACED IN KIND TO ENGINEER'S SATISFACTION.
2. ALL EXISTING SANITARY SEWER AND STORM DRAIN CROSSINGS WITHIN THE CITIES OF SANTA MONICA AND LOS ANGELES SHALL BE PROTECTED PER THE CITY OF LOS ANGELES STANDARD PLAN S-253-0, SHEET 29.

ASBESTOS CEMENT PIPE:

1. ASBESTOS CEMENT PIPE MAY BE CUT ONLY BY AN APPROVED METHOD AND IN ACCORDANCE WITH OSHA GUIDELINES. SAWING, GRINDING, DRILLING, OR ANY OTHER ACTIVITY WHICH COULD RESULT IN THE RELEASE OF ASBESTOS FIBERS IS PROHIBITED.
2. WHEN WORKING WITH ASBESTOS CEMENT PIPE, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION THAT EMPLOYEES HAVE RECEIVED REQUIRED TRAINING PER OSHA.
3. METHODS OF CONSTRUCTION SHALL ALSO COMPLY WITH OSHA AND OTHER LEGAL –25IDELINES TO PREVENT THE RELEASE OF FIBERS.

CONSTRUCTION NOTES

(1) INSTALL 12"ø PC350 DUCTILE IRON WATER MAIN IN OPEN TRENCH PER SMW-1, SHEET 27.
(3) CONNECT TO EXISTING ACP PER CITY OF SANTA MONICA STANDARD DETAIL SMW-3, SHEET 27.
(4) INSTALL BLIND FLANGE FOR FUTURE CONNECTION
(5) INSTALL RESTRAINED MECHANICAL JOINT CAP AND CONCRETE AND ABANDON EXISTING WATER MAIN, OR SERVICE, IN PLACE PER SMW-10, SHEET 28. REPAIR TRENCH PER SMW-1, SHEET 27.
(6) INSTALL 90° DUCTILE IRON ELBOW (MJxMJ) WITH THRUST BLOCK AND RESTRAINING GLANDS PER SMW-6 AND SMW-7, SHEETS 27
(7) INSTALL 12"ø RESILIENT WEDGE GATE VALVE PER SMW-4, SHEET 27.



SM-9

OLYMPIC BLVD – PLAN VIEW

SCALE 1"=20'

GENERAL NOTES:

1. ALL EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, LOOP DETECTORS, X-WALKS, STOP BARS, CURB, GUTTER, SIDEWALK, PAVEMENT, BICYCLE LANES, AND LEGENDS DAMAGED AS A RESULT OF CONTRACTOR'S WORK SHALL BE REPLACED IN KIND TO ENGINEER'S SATISFACTION.
2. ALL EXISTING SANITARY SEWER AND STORM DRAIN CROSSINGS WITHIN THE CITIES OF SANTA MONICA AND LOS ANGELES SHALL BE PROTECTED PER THE CITY OF LOS ANGELES STANDARD PLAN S-253-0, SHEET 29.

ASBESTOS CEMENT PIPE:

1. ASBESTOS CEMENT PIPE MAY BE CUT ONLY BY AN APPROVED METHOD AND IN ACCORDANCE WITH OSHA GUIDELINES. SAWING, GRINDING, DRILLING, OR ANY OTHER ACTIVITY WHICH COULD RESULT IN THE RELEASE OF ASBESTOS FIBERS IS PROHIBITED.
2. WHEN WORKING WITH ASBESTOS CEMENT PIPE, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION THAT EMPLOYEES HAVE RECEIVED REQUIRED TRAINING PER OSHA.
3. METHODS OF CONSTRUCTION SHALL ALSO COMPLY WITH OSHA AND OTHER LEGAL –25IDELINES TO PREVENT THE RELEASE OF FIBERS.

CONSTRUCTION NOTES

(1) INSTALL 12"ø PC350 DUCTILE IRON WATER MAIN IN OPEN TRENCH PER SMW-1, SHEET 27.
(4) INSTALL BLIND FLANGE FOR FUTURE CONNECTION
(8) CONNECT TO EXISTING ACP PER DETAIL 3, SHEET 28.
(9) INSTALL 12"x10" DUCTILE IRON REDUCER (MJxMJ) WITH RESTRAINING GLANDS.
(13) INSTALL 45° DUCTILE IRON ELBOW (MJxMJ) WITH THRUST BLOCK AND RESTRAINING GLANDS PER SMW-6 AND SMW-7, SHEETS 27
(18) EXISTING TREE (TO BE REMOVED).

Path: Z:\Projects\120381\MAP\DOCDOCUMENTER\

SOURCE: Cannon 2020

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FIGURE 4A

Engineering Plans Production Wells SM-8 and SM-9

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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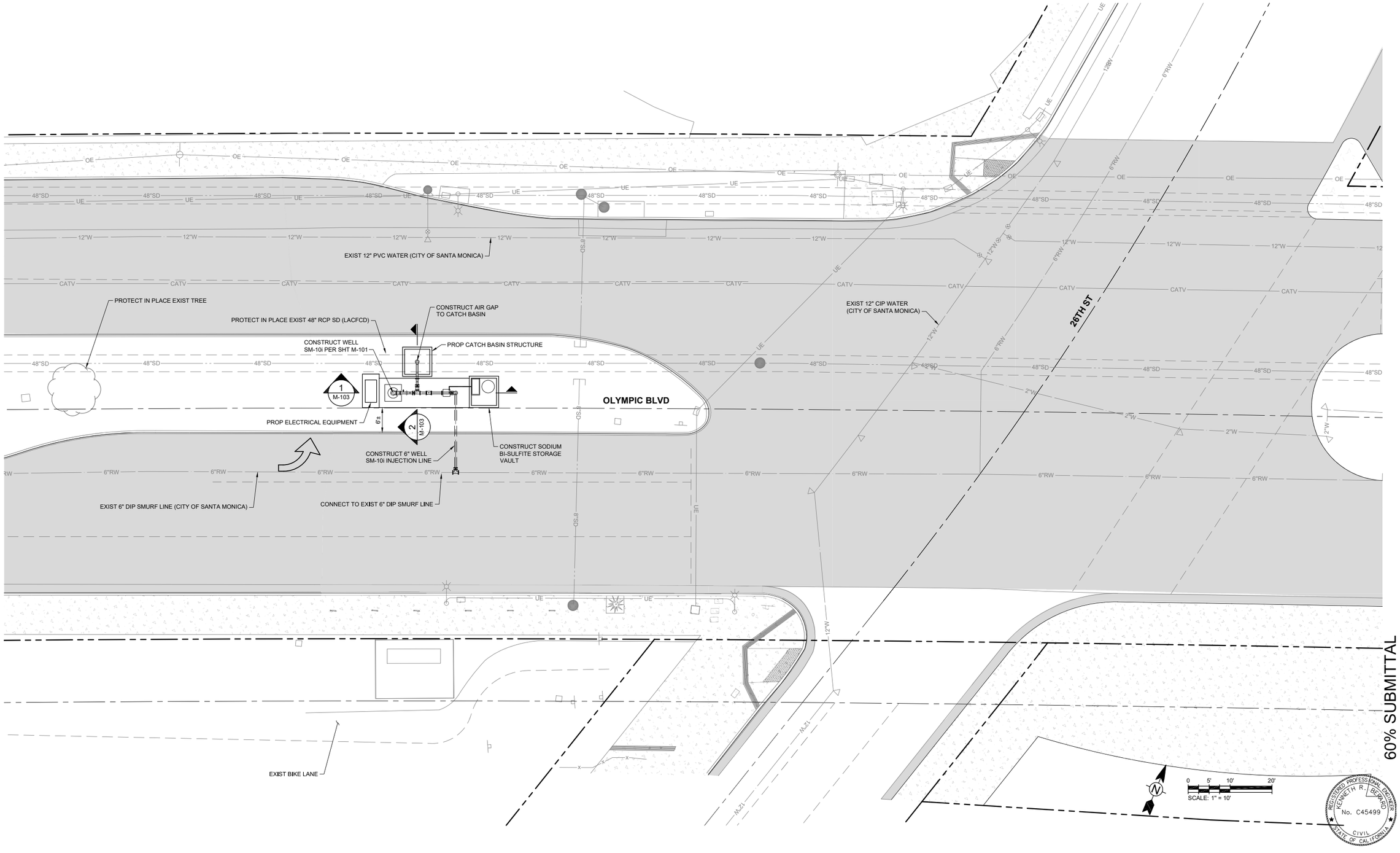

SOURCE: Tetra Tech 2020

FIGURE 4B

Engineering Plans Injection Well SM-10i

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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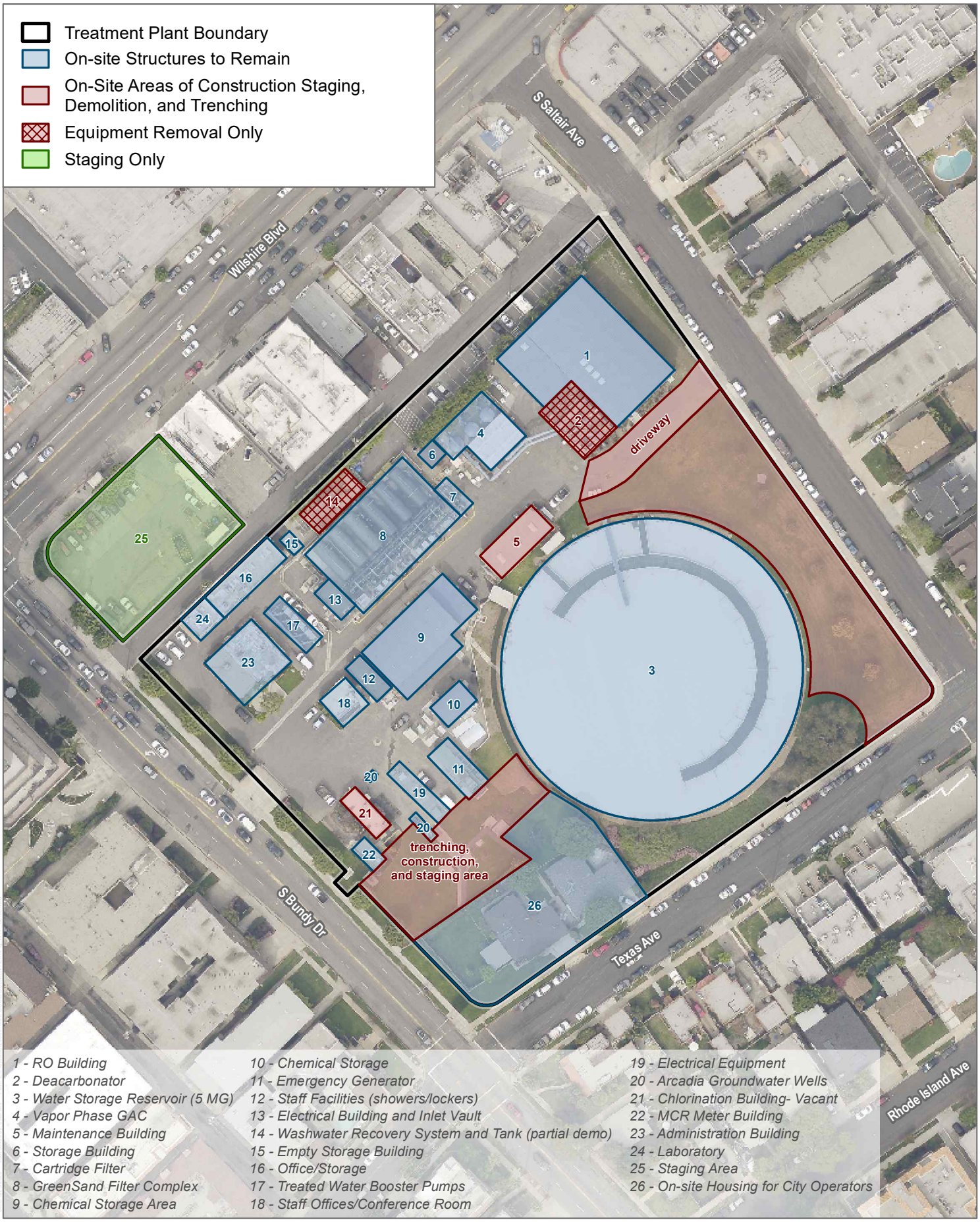

1 - RO Building
2 - Deacarbonator
3 - Water Storage Reservoir (5 MG)
4 - Vapor Phase GAC
5 - Maintenance Building
6 - Storage Building
7 - Cartridge Filter
8 - GreenSand Filter Complex
9 - Chemical Storage Area
10 - Chemical Storage
11 - Emergency Generator
12 - Staff Facilities (showers/lockers)
13 - Electrical Building and Inlet Vault
14 - Washwater Recovery System and Tank (partial demo)
15 - Empty Storage Building
16 - Office/Storage
17 - Treated Water Booster Pumps
18 - Staff Offices/Conference Room
19 - Electrical Equipment
20 - Arcadia Groundwater Wells
21 - Chlorination Building- Vacant
22 - MCR Meter Building
23 - Administration Building
24 - Laboratory
25 - Staging Area
26 - On-site Housing for City Operators

SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 5

Arcadia Water Treatment Plant Demolition and Staging Plan

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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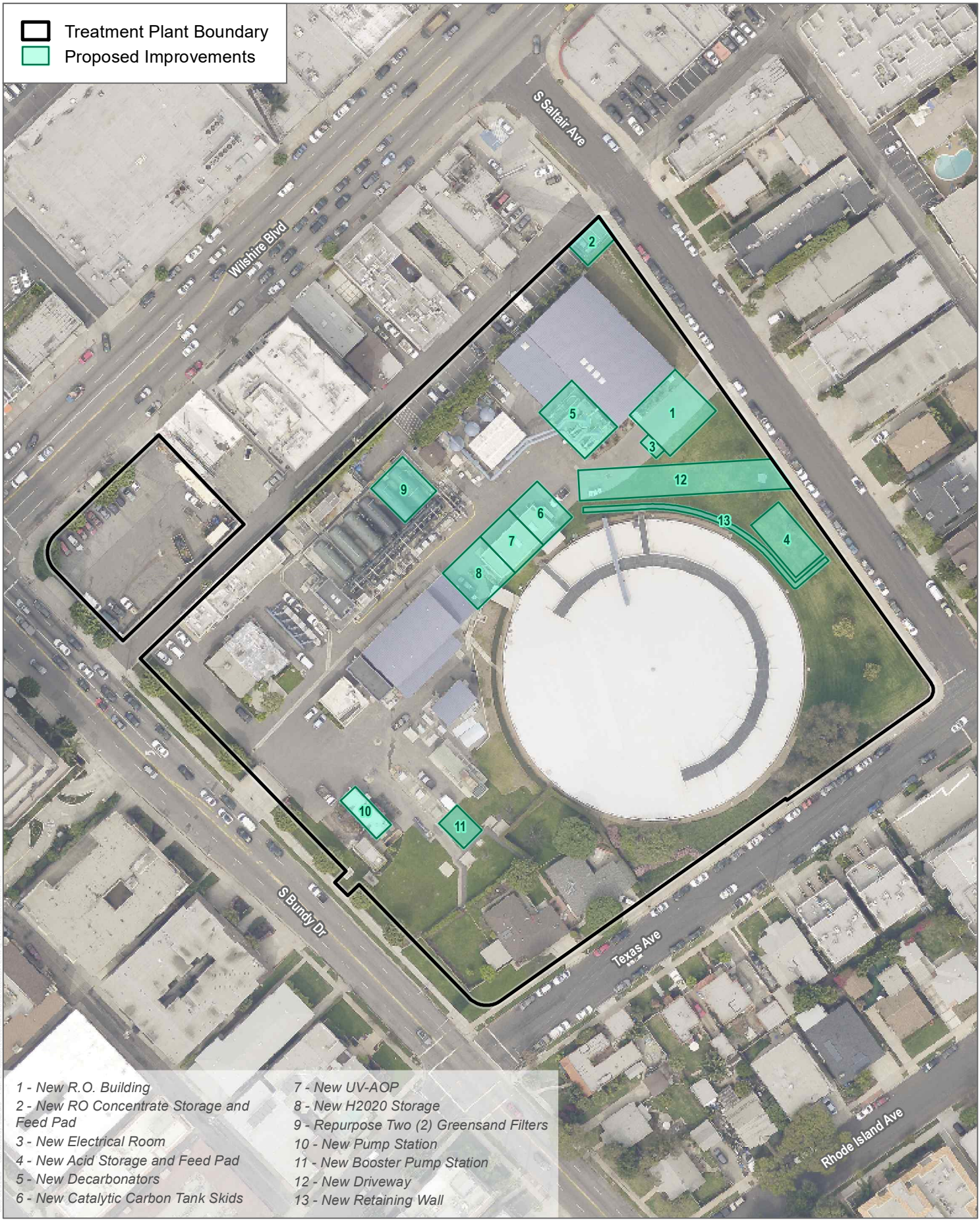

SOURCE: Esri and Digital Globe 2019; Open street Map 2019

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FIGURE 6

Arcadia Water Treatment Plant Conceptual Plan Improvements

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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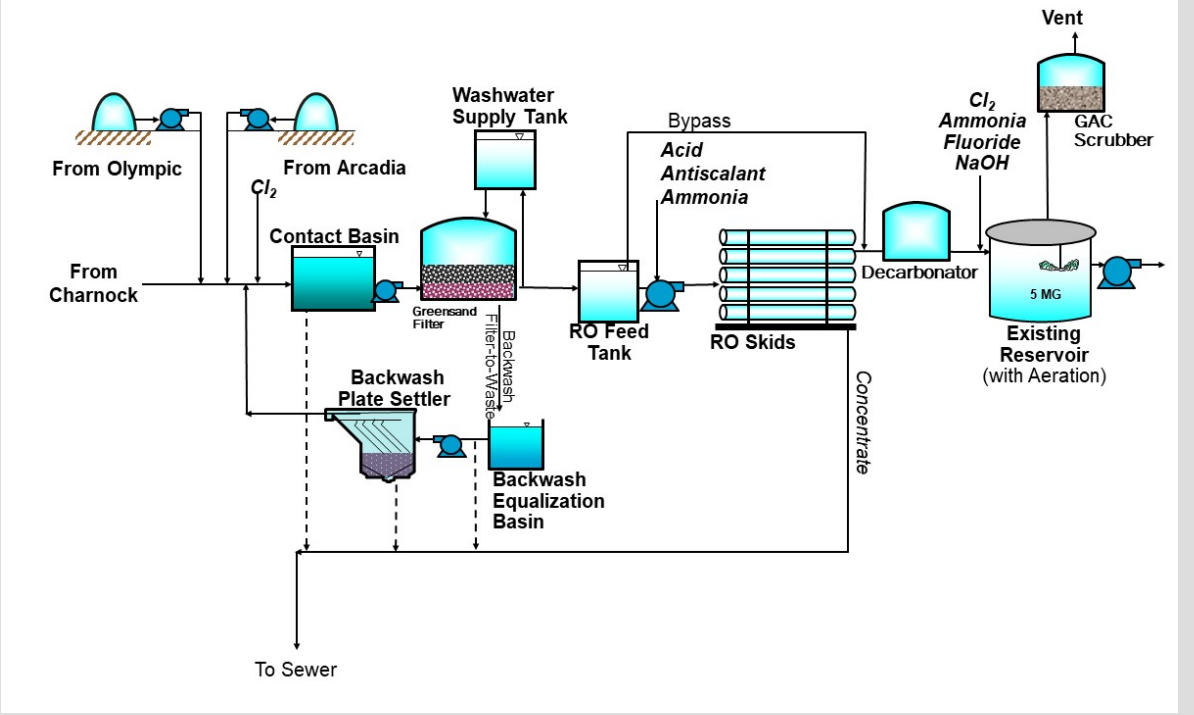
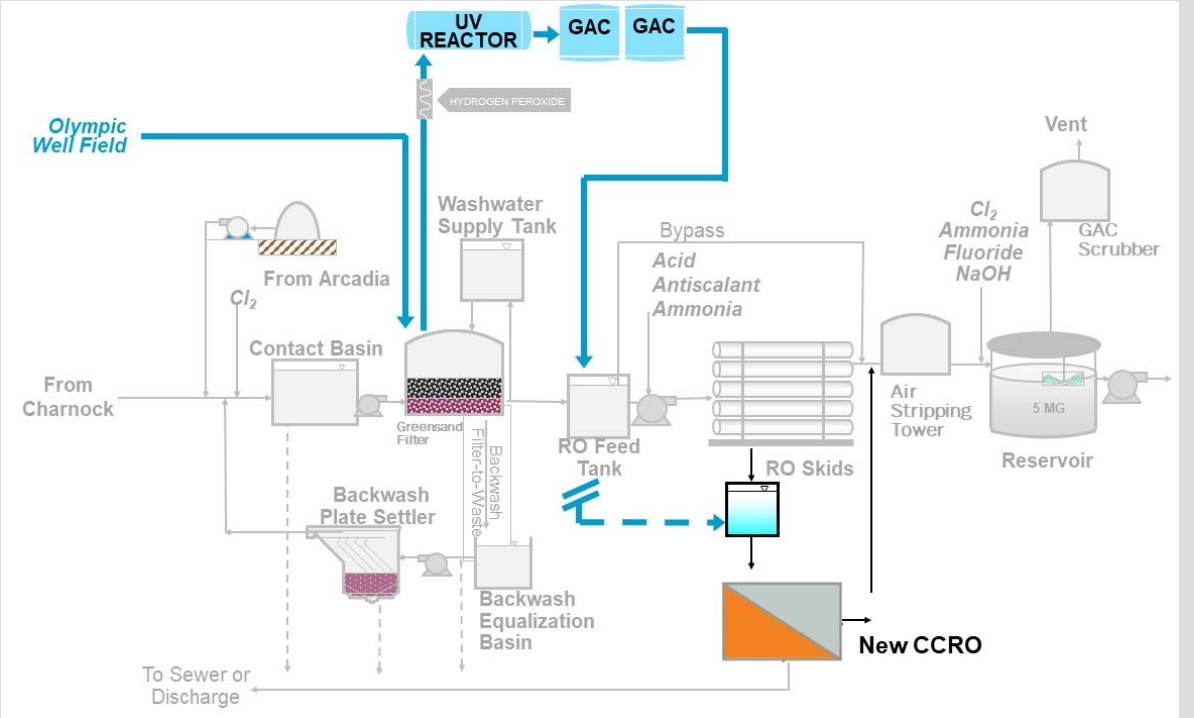


Existing Process Schematic



Proposed Process Schematic

SOURCE: City of Santa Monica 2019

FIGURE 7

Existing and Proposed Process Schematic of the Arcadia WTP

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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SOURCE: CGS 2020

FIGURE 8

Representative Production Well Site

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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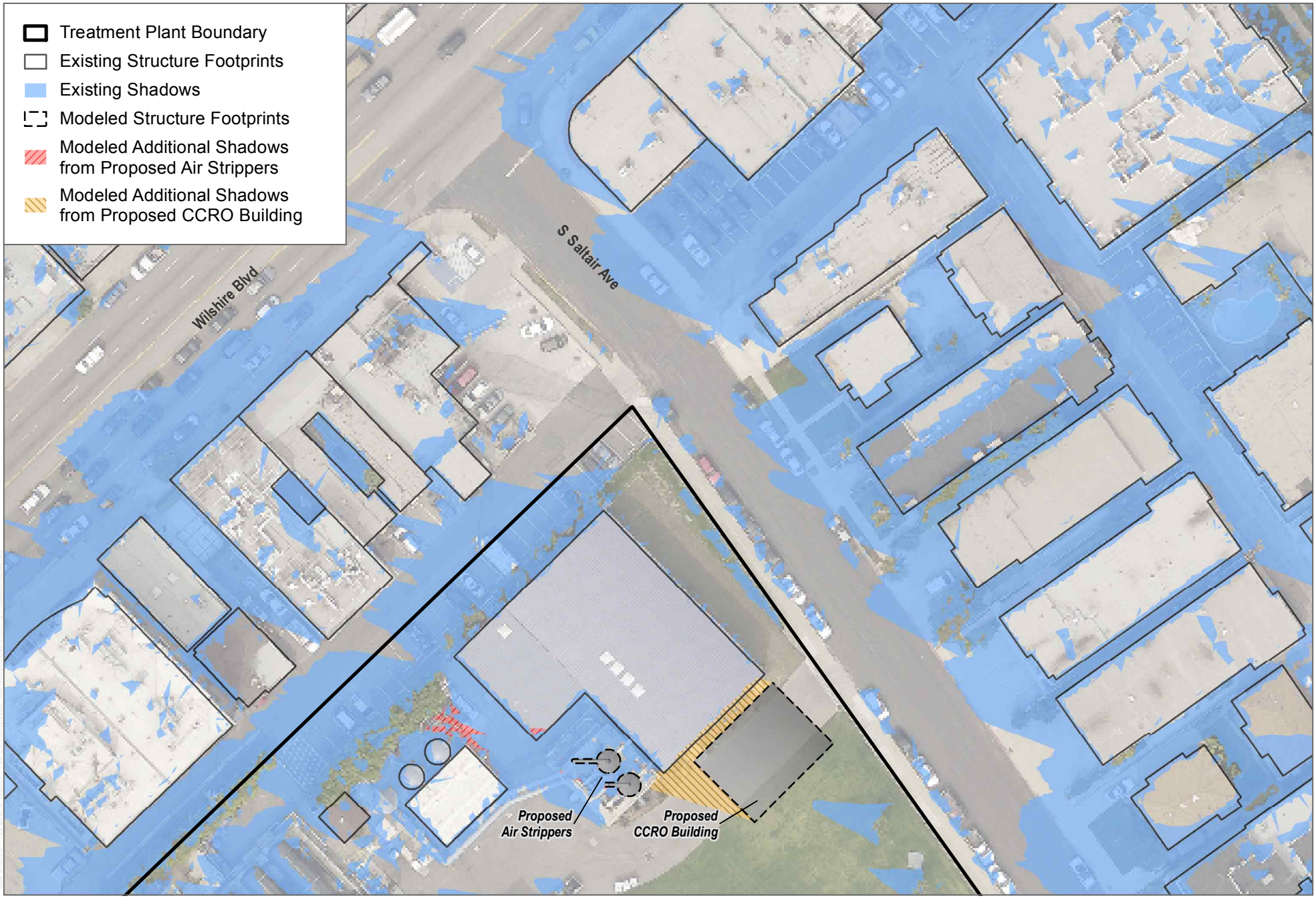

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 9A

Existing and Proposed Shadows - Spring Equinox at 9:00 a.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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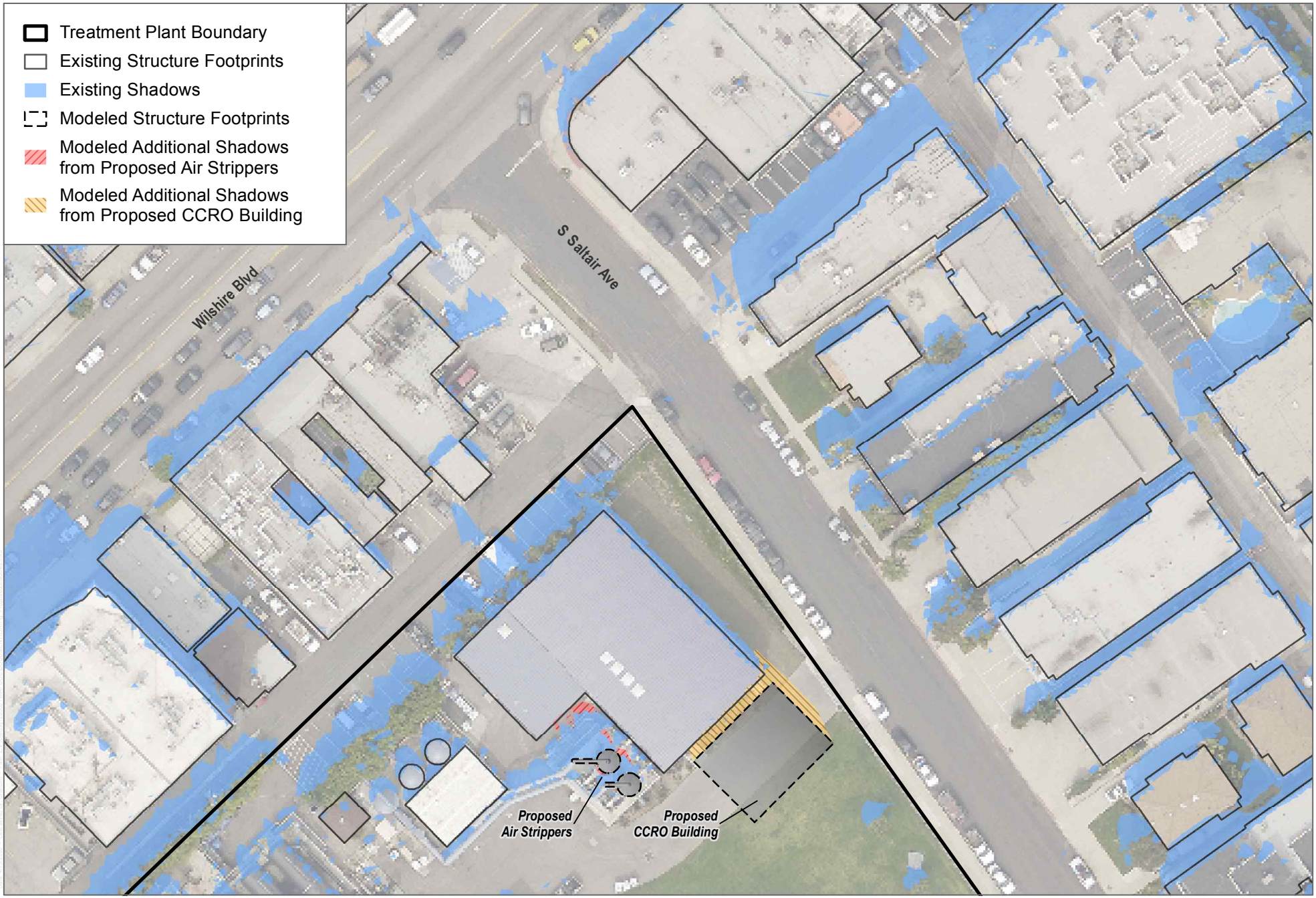

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 9B

Existing and Proposed Shadows - Spring Equinox at 12:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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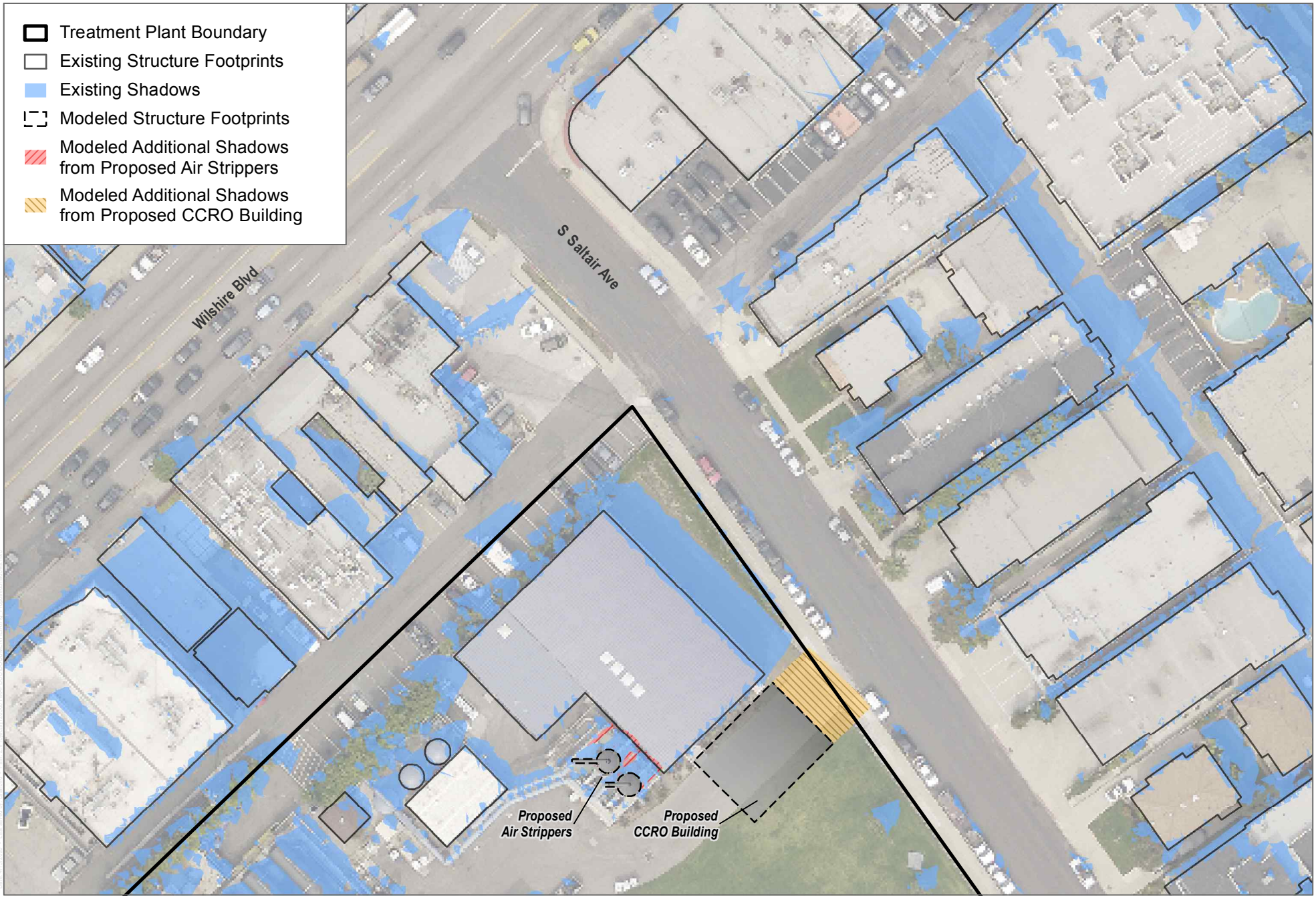

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 9C

Existing and Proposed Shadows - Spring Equinox at 3:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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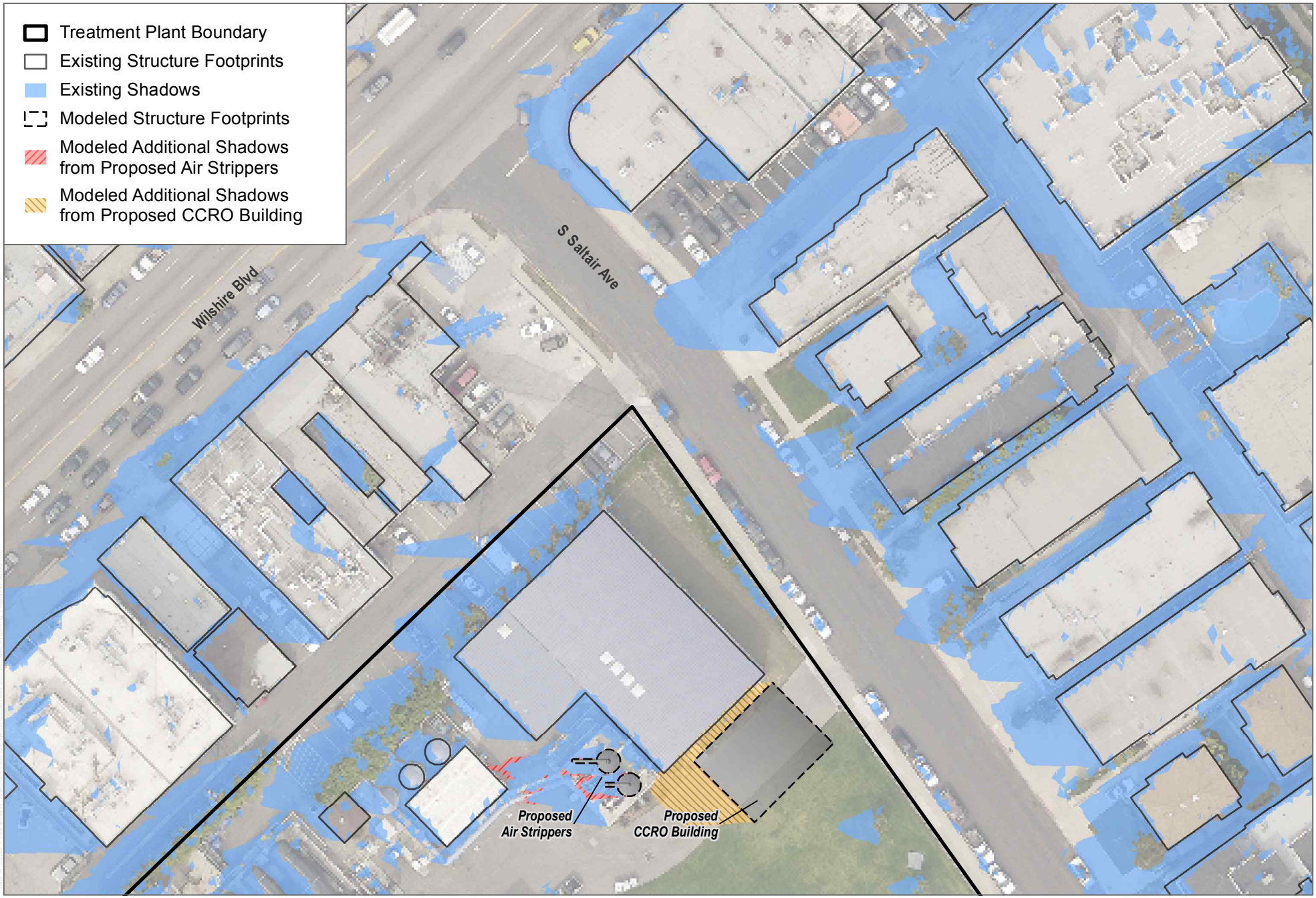

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 10A

Existing and Proposed Shadows - Summer Solstice at 9:00 a.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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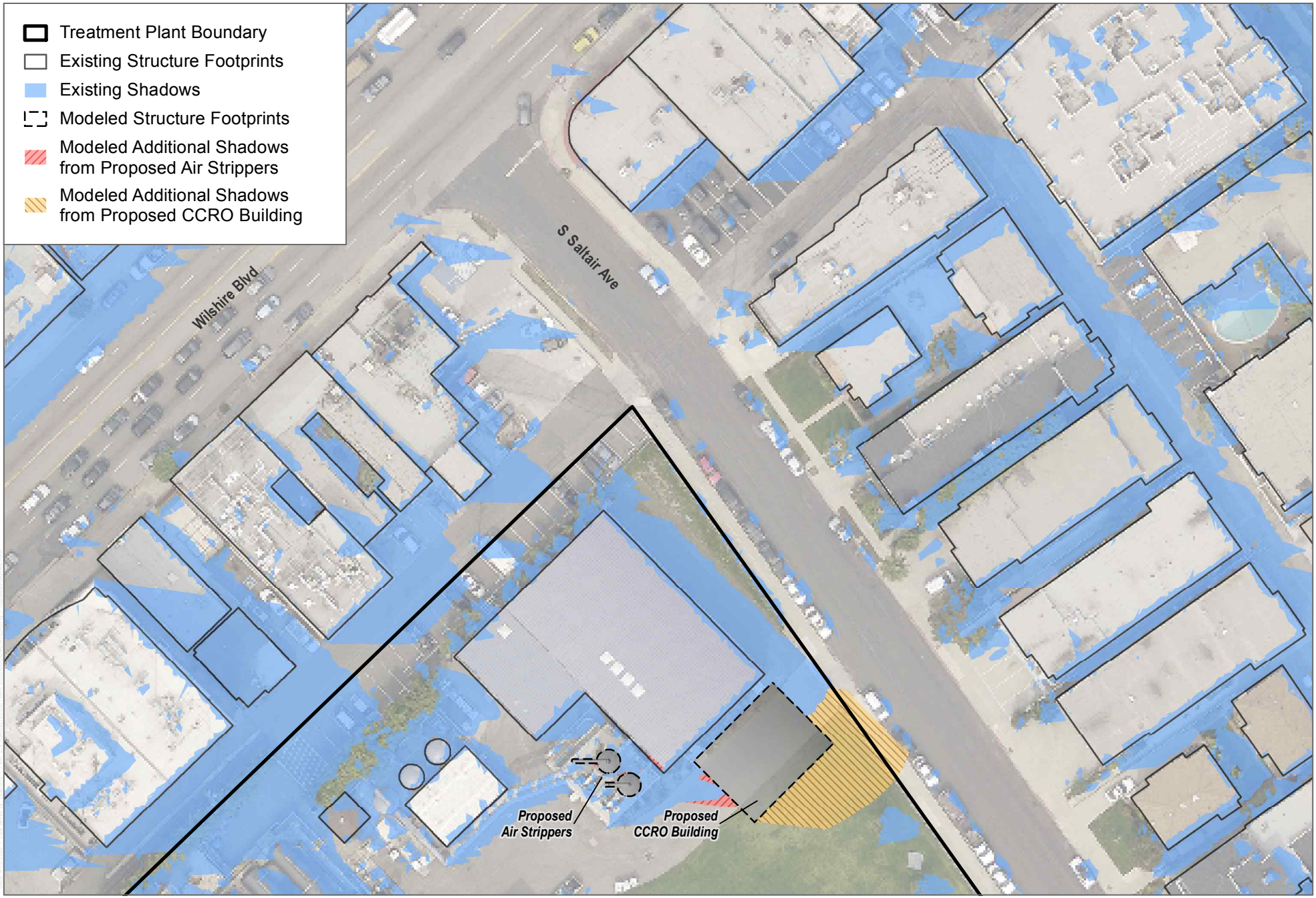

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 10C

Existing and Proposed Shadows - Summer Solstice at 5:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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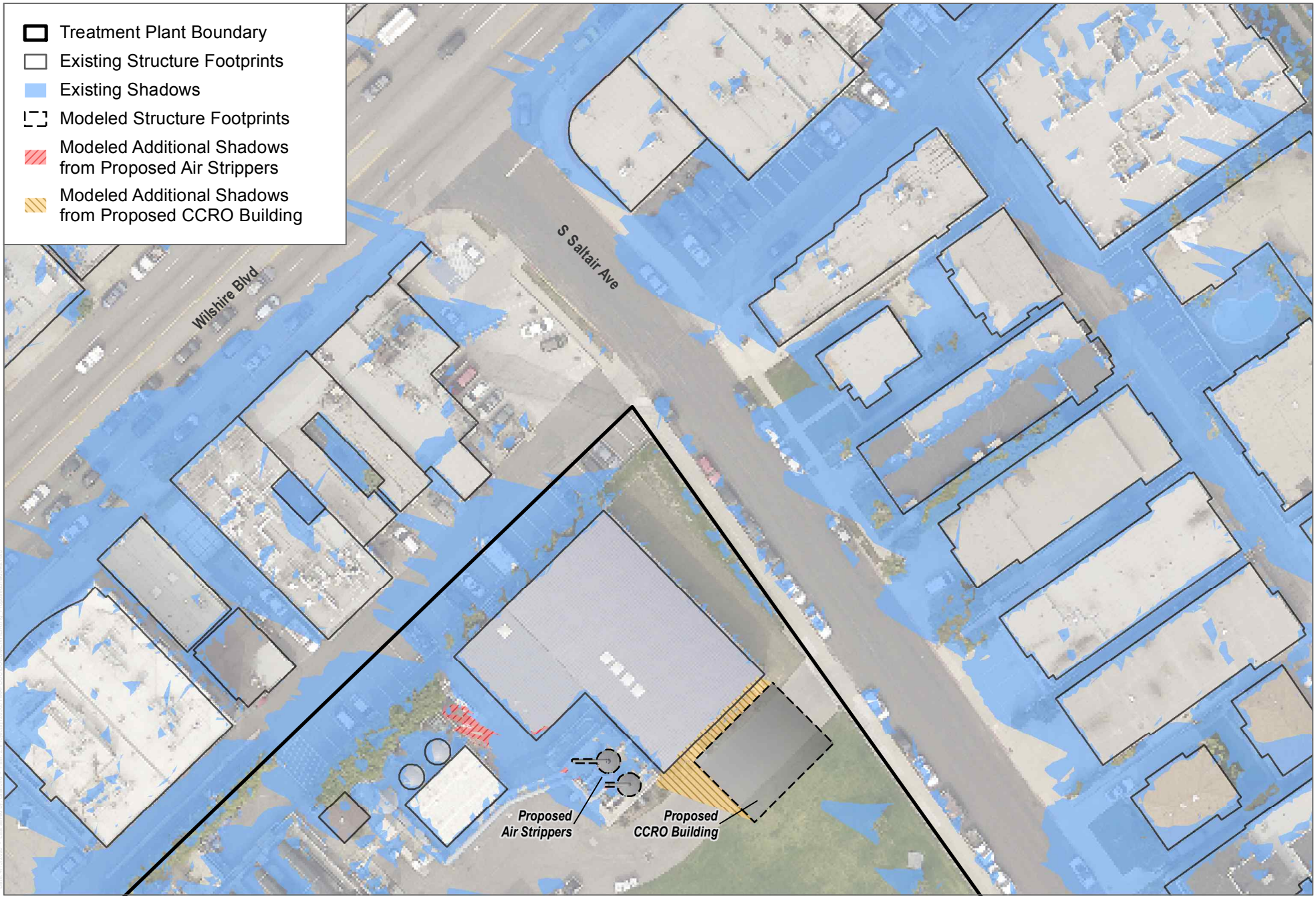

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 11A

Existing and Proposed Shadows - Fall Equinox at 9:00 a.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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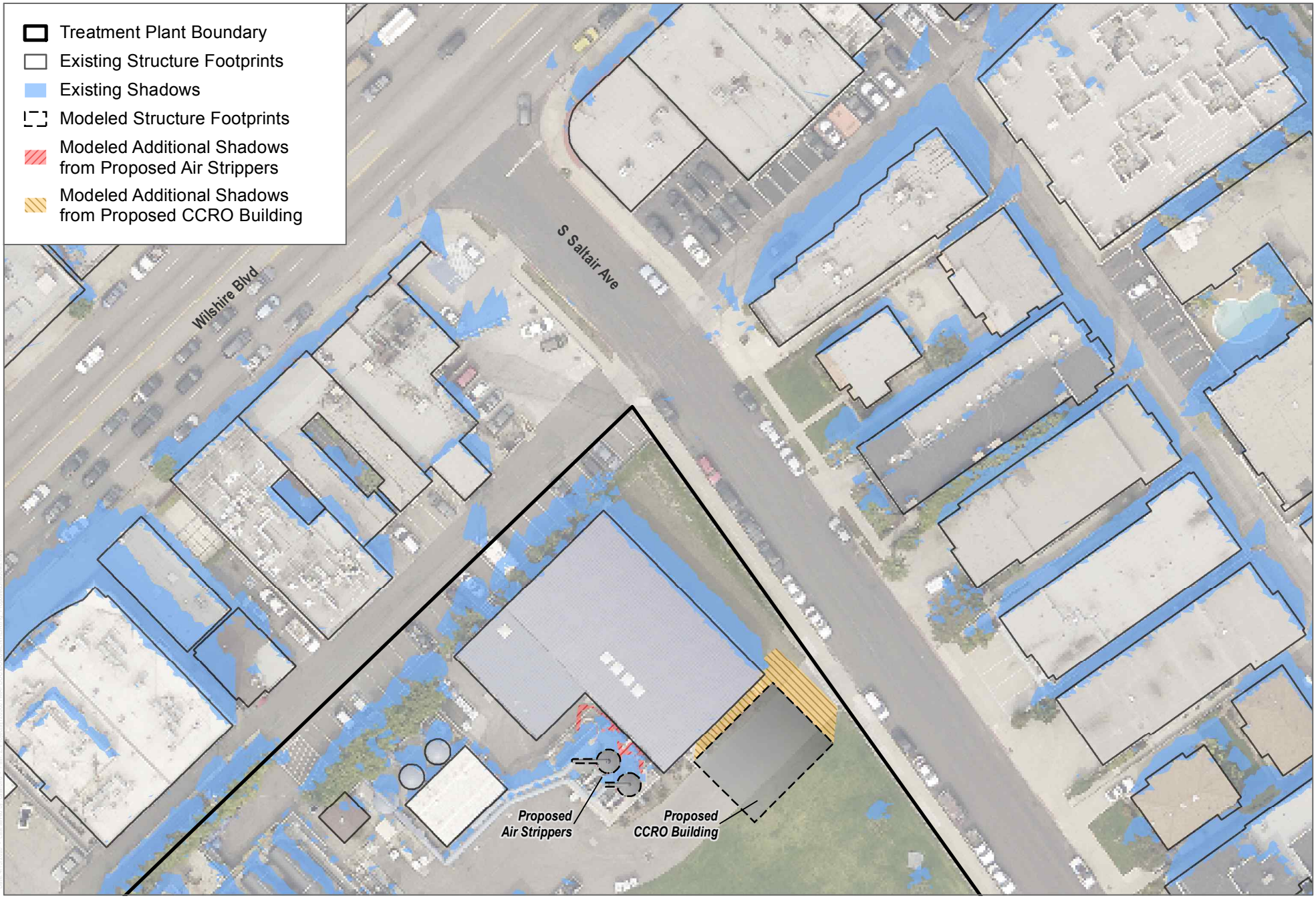

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 11B

Existing and Proposed Shadows - Fall Equinox at 1:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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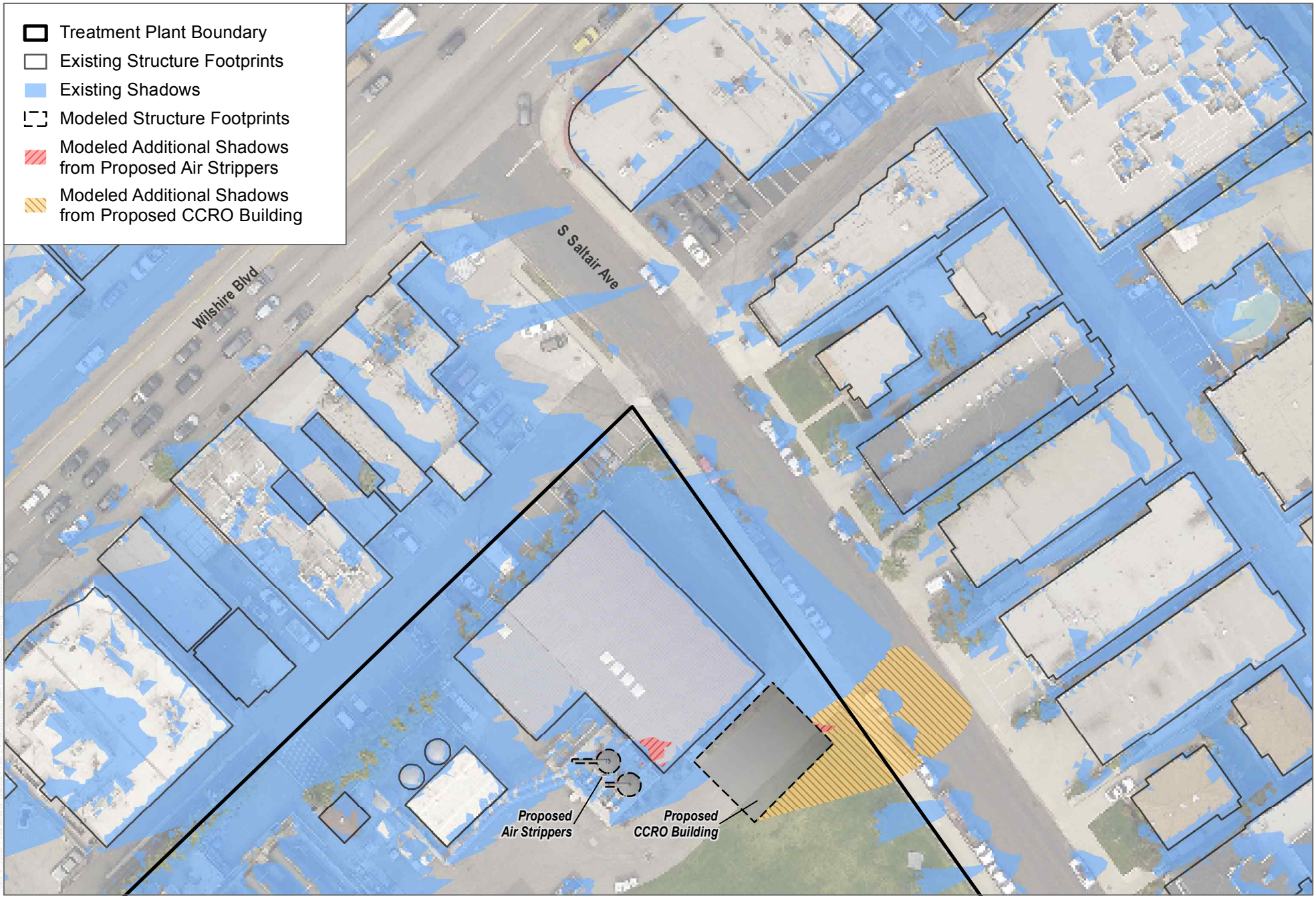

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 11C

Existing and Proposed Shadows - Fall Equinox at 5:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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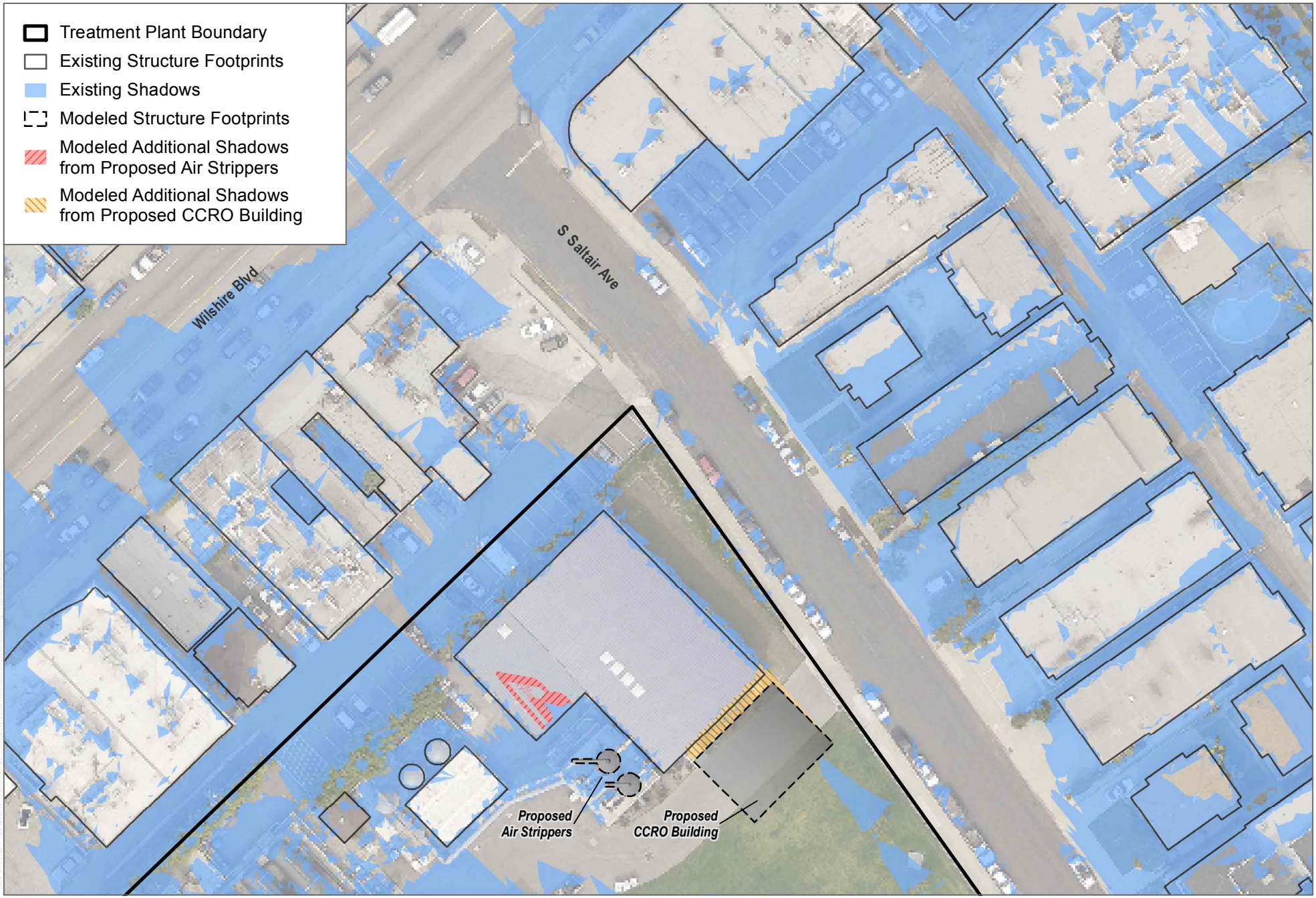

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 12A

Existing and Proposed Shadows - Winter Solstice at 9:00 a.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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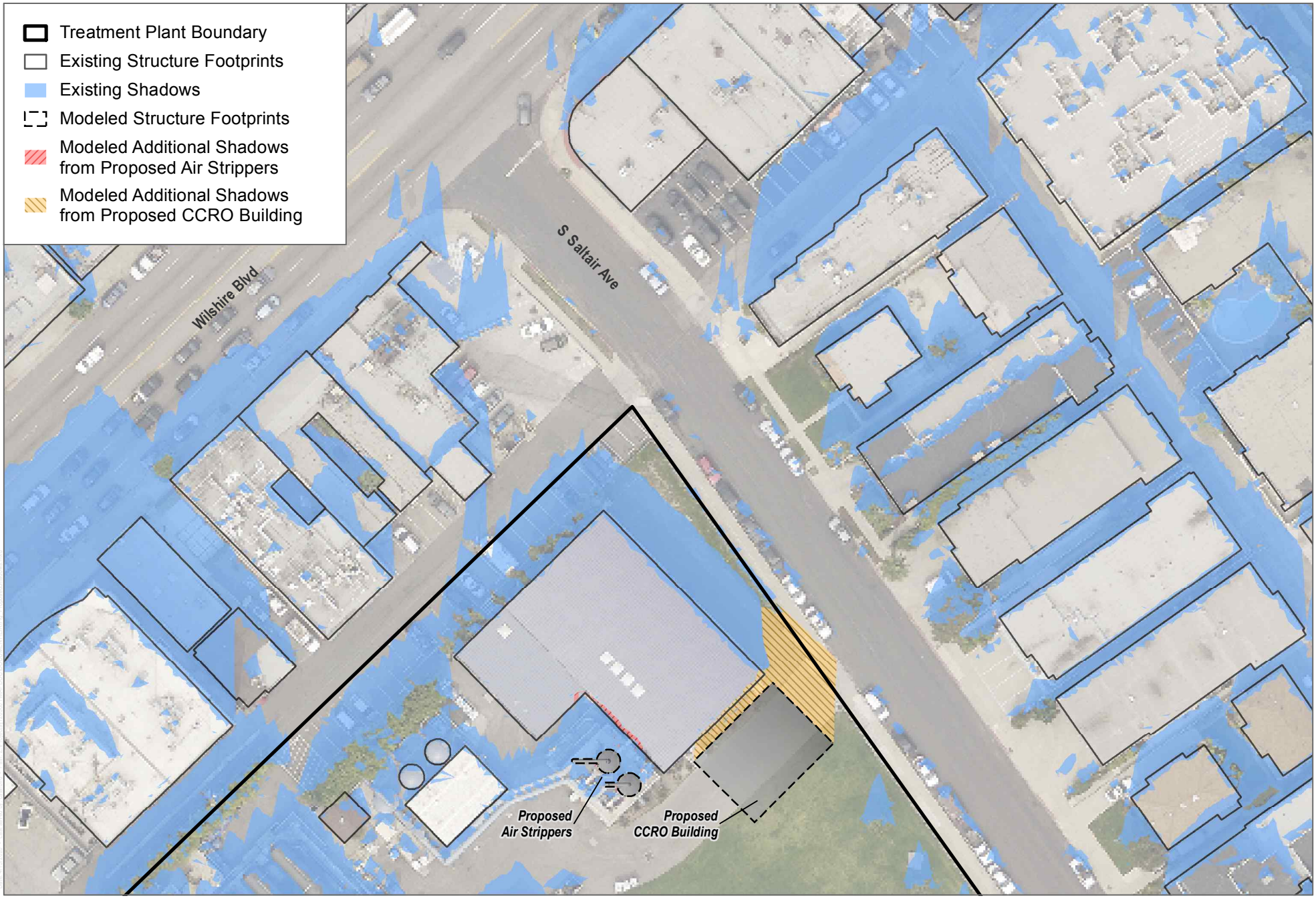

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 12B

Existing and Proposed Shadows - Winter Solstice at 12:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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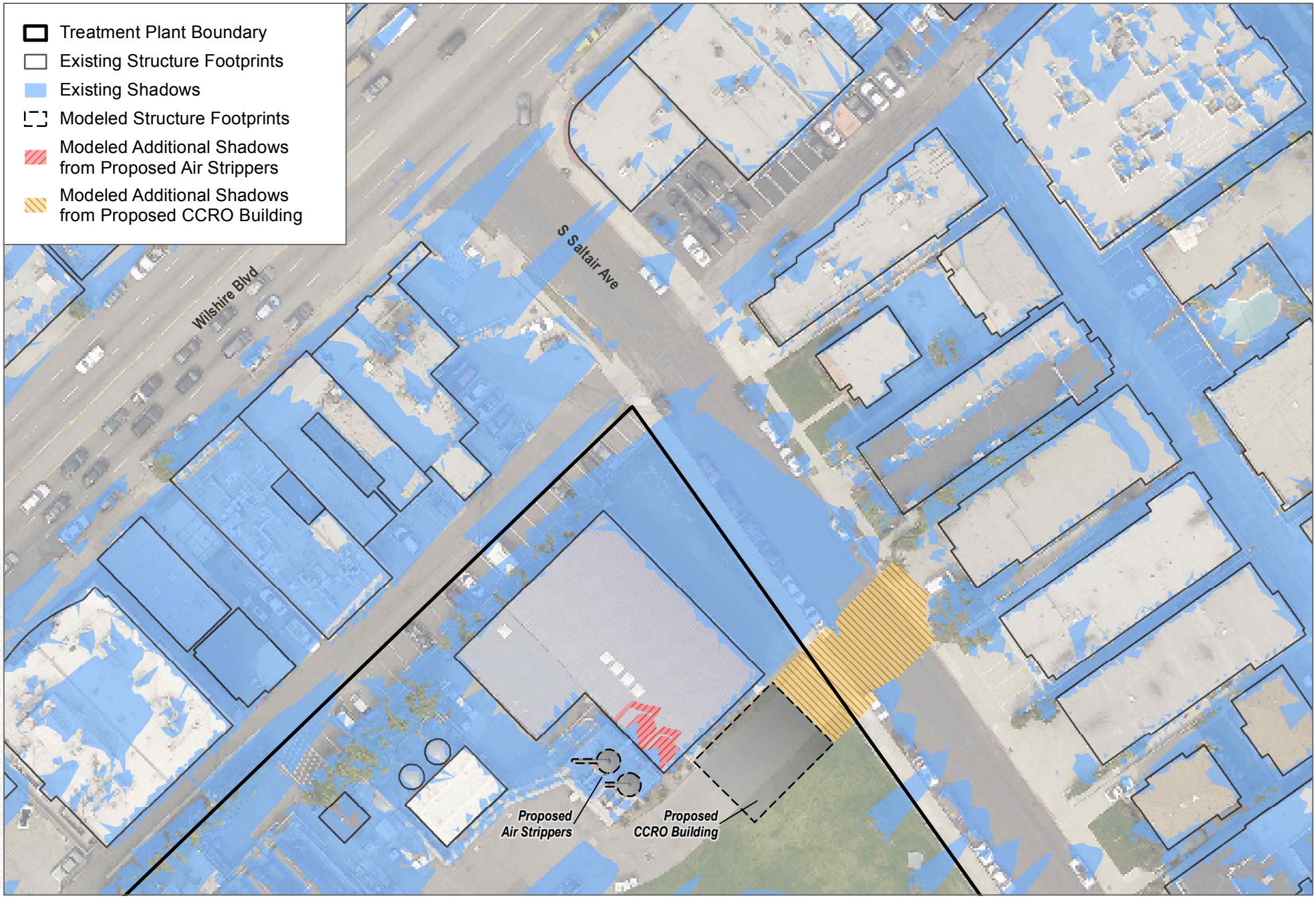

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 12C

Existing and Proposed Shadows - Winter Solstice at 3:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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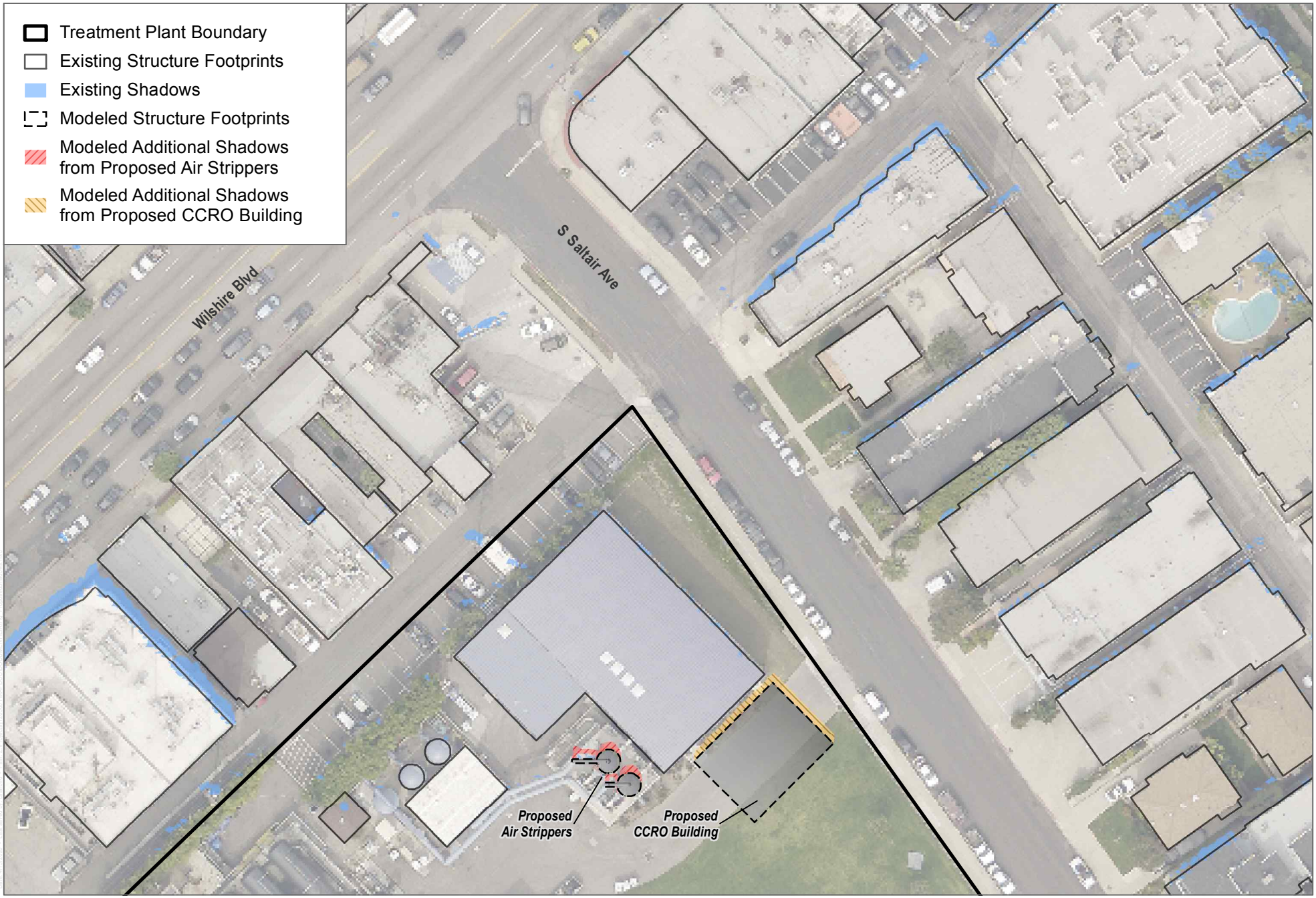

SOURCE: LARIAC Imagery 2014; Open street Map 2019

DUDEK

0 30 60 Feet

FIGURE 10B

Existing and Proposed Shadows - Summer Solstice at 1:00 p.m.

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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SOURCE: Esri and Digital Globe 2019; Open street Map 2019

DUDEK

0 75 150 Feet

FIGURE 13

Air Quality Sensitive Receptors – Olympic AWTF and Arcadia WTP

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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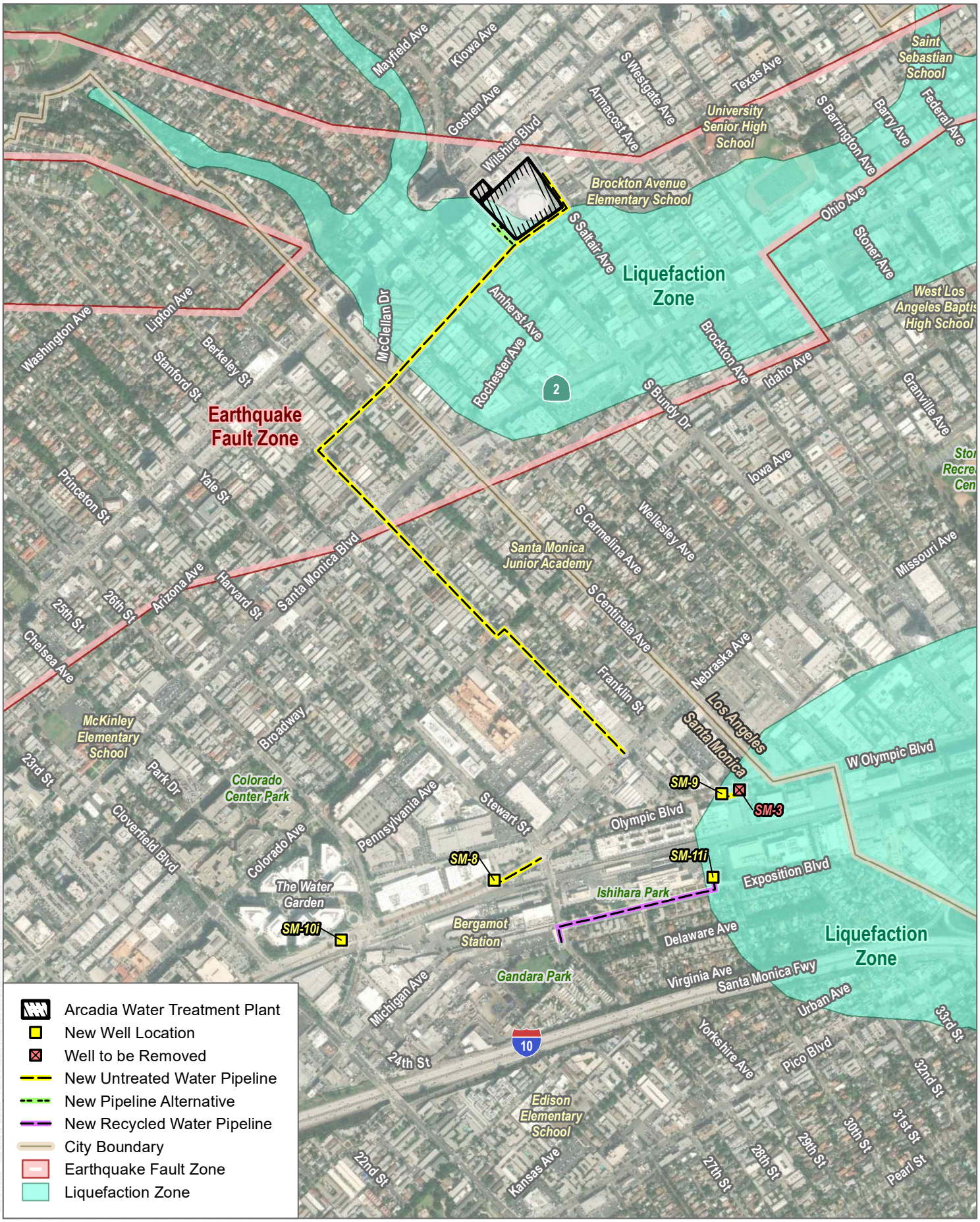

SOURCE: Esri and Digital Globe 2019; CA Dept. of Conservation; Open street Map 2019

DUDEK

0 500 1,000 Feet

FIGURE 14

Existing Geological Conditions

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

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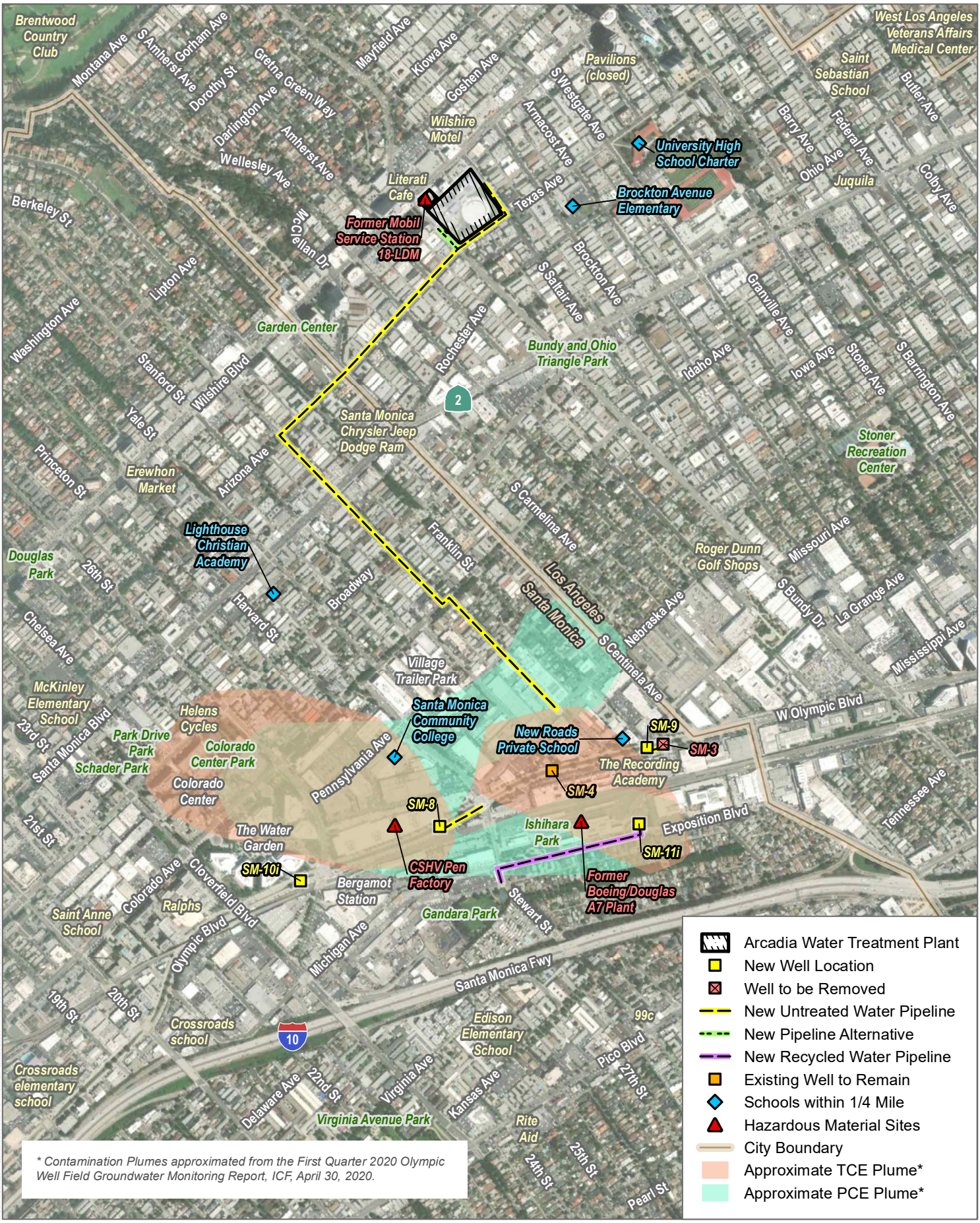

SOURCE: Esri and Digital Globe 2019; Open street Map 2019

FIGURE 15

Project Site Hazards

Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project

DUDEK

0 550 1,100 Feet

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Appendix A

CalEEMod Data Assumptions and Results

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Unmitigated

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.50	1000sqft	0.24	10,500.00	0
Industrial Park	1.00	1000sqft	0.00	1,000.00	0
User Defined Industrial	0.74	User Defined Unit	0.74	32,400.00	0
User Defined Industrial	0.63	User Defined Unit	0.63	27,300.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	30,056.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.
Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-10 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-11 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-8 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-9 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - WTP - Architectural Coating: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 1: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 2: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 3: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 4: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 5: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 6: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 7: Applicant-provided data.

Off-road Equipment - WTP - Demolition: Applicant-provided data.

Off-road Equipment - WTP - Paving: Applicant-provided data.

Off-road Equipment - WTP - Site Preparation and Grading: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - Demolition: WTP - Demolition. 5,725 SF total.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of new buildings and asphalt surface striping.

Vehicle Trips - No net new worker operational trips anticipated. Minimal, infrequent net new truck deliveries anticipated (maximum 2 one-way trips per day).

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Road Dust - Operational mobile source emissions not estimated.

Woodstoves - No hearths.

Consumer Products - CalEEMod default values.

Area Coating - Operational architectural coating for 10,500 SF of building (conservative as some surfaces would not require coating).

Landscape Equipment - No increase in landscape maintenance activity from existing conditions.

Energy Use - CalEEMod default values for General Light Industry.

Water And Wastewater - CalEEMod default values for water use. 100% aerobic.

Solid Waste - CalEEMod default values.

Construction Off-road Equipment Mitigation - Water Exposed Area, Frequency: 2 times per day.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No area mitigation.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water mitigation.

Waste Mitigation - Percent Reduction in Waste Disposed: 50%. Waste diversion consistent with Assembly Bill 939.

Operational Off-Road Equipment - No operational offroad equipment.

Fleet Mix - Industrial Park: 50% MHDT/50% HHDT.

Stationary Sources - User Defined - No operational stationary sources.

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Unmitigated - Los Angeles-South Coast County, Winter

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
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tblOffRoadEquipment	UsageHours	7.00	4.00
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tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripNumber	509.00	510.00
tblTripsAndVMT	HaulingTripNumber	26.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	84.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
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tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
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tblTripsAndVMT	VendorTripNumber	0.00	4.00

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tblTripsAndVMT	VendorTripNumber	0.00	4.00
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tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00

tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
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tblTripsAndVMT	WorkerTripNumber	43.00	12.00
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tblTripsAndVMT	WorkerTripNumber	43.00	8.00
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tblVehicleTrips	CC_TL	8.40	20.00
tblVehicleTrips	CNW_TL	6.90	20.00
tblVehicleTrips	CW_TL	16.60	20.00

tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	6.83	2.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.8210	9.9442	8.2281	0.0273	0.8187	0.2212	1.0399	0.2101	0.2060	0.4161	0.0000	2,786.2322	2,786.2322	0.3728	0.0000	2,795.5513
2021	9.0423	13.9153	14.3968	0.0327	0.5625	0.5306	1.0931	0.1499	0.4891	0.6390	0.0000	3,275.3900	3,275.3900	0.6830	0.0000	3,292.4644
2022	3.4026	35.4462	31.3134	0.0649	6.6971	1.5875	8.2847	3.4589	1.4727	4.9317	0.0000	6,308.9103	6,308.9103	1.3628	0.0000	6,342.9793
2023	1.6625	2.0048	2.8362	8.1800e-003	0.2567	0.0956	0.3045	0.0663	0.0955	0.1348	0.0000	832.5120	832.5120	0.1229	0.0000	835.3837
Maximum	**9.0423**	**35.4462**	**31.3134**	**0.0649**	**6.6971**	**1.5875**	**8.2847**	**3.4589**	**1.4727**	**4.9317**	**0.0000**	**6,308.9103**	**6,308.9103**	**1.3628**	**0.0000**	**6,342.9793**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.8210	9.9442	8.2281	0.0273	0.7762	0.2212	0.9974	0.2052	0.2060	0.4112	0.0000	2,786.2322	2,786.2322	0.3728	0.0000	2,795.5513
2021	9.0423	13.9153	14.3968	0.0327	0.5510	0.5306	1.0817	0.1485	0.4891	0.6376	0.0000	3,275.3900	3,275.3900	0.6830	0.0000	3,292.4644
2022	3.4026	35.4462	31.3134	0.0649	3.2409	1.5875	4.8284	1.6174	1.4727	3.0901	0.0000	6,308.9103	6,308.9103	1.3628	0.0000	6,342.9793
2023	1.6625	2.0048	2.8362	8.1800e-003	0.2451	0.0956	0.2928	0.0650	0.0955	0.1348	0.0000	832.5120	832.5120	0.1229	0.0000	835.3837
Maximum	**9.0423**	**35.4462**	**31.3134**	**0.0649**	**3.2409**	**1.5875**	**4.8284**	**1.6174**	**1.4727**	**3.0901**	**0.0000**	**6,308.9103**	**6,308.9103**	**1.3628**	**0.0000**	**6,342.9793**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**42.25**	**0.00**	**32.85**	**47.60**	**0.00**	**30.19**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932
Total	**1.4631**	**0.2709**	**0.1293**	**1.5100e-003**	**0.0370**	**4.3100e-003**	**0.0413**	**0.0106**	**4.2900e-003**	**0.0149**		**190.0113**	**190.0113**	**6.8600e-003**	**1.1200e-003**	**190.5175**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932
Total	**1.4631**	**0.2709**	**0.1293**	**1.5100e-003**	**0.0370**	**4.3100e-003**	**0.0413**	**0.0106**	**4.2900e-003**	**0.0149**		**190.0113**	**190.0113**	**6.8600e-003**	**1.1200e-003**	**190.5175**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Well - SM-10 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
2	Well - SM-8 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
3	Well - SM-9 Grading Well Pad	Grading	11/27/2020	12/10/2020	5	10	
4	Well - SM-10 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
5	Well - SM-8 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
6	Well - SM-9 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
7	Well - SM-10 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
8	Well - SM-8 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
9	Well - SM-9 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
10	Pipeline - Site Preparation	Site Preparation	2/28/2021	3/5/2021	5	5	
11	Pipeline - Grading - Slurry Backfill	Grading	3/6/2021	5/28/2021	5	60	
12	Pipeline - Grading - Installation	Grading	3/6/2021	5/28/2021	5	60	
13	Pipeline - Continual Paving	Paving	3/6/2021	5/28/2021	5	60	
14	Pipeline - Continual Pavement Striping	Architectural Coating	3/6/2021	5/28/2021	5	60	
15	Pipeline - Final Paving	Paving	5/29/2021	6/11/2021	5	10	
16	Pipeline - Final Pavement Striping	Architectural Coating	6/14/2021	6/14/2021	5	1	
17	WTP - Demolition	Demolition	1/21/2022	2/24/2022	5	25	

18	WTP - Site Preparation and Grading	Grading	2/1/2022	2/28/2022	5	20	
19	WTP - Building Construction 3	Building Construction	3/1/2022	9/1/2022	5	133	
20	WTP - Building Construction 4	Building Construction	3/1/2022	9/15/2022	5	143	
21	WTP - Building Construction 1	Building Construction	3/1/2022	6/1/2022	5	67	
22	WTP - Building Construction 2	Building Construction	3/1/2022	7/1/2022	5	89	
23	WTP - Building Construction 5	Building Construction	4/1/2022	5/13/2022	5	31	
24	WTP - Building Construction 6	Building Construction	5/1/2022	9/1/2022	5	89	
25	WTP - Building Construction 7	Building Construction	8/1/2022	11/1/2022	5	67	
26	WTP - Architectural Coating	Architectural Coating	10/15/2022	1/24/2023	5	72	
27	WTP - Paving	Paving	11/1/2022	12/1/2022	5	23	
28	Well - SM-11 Grading - Well Pad	Grading	7/1/2023	7/14/2023	5	10	
29	Well - SM-11 Building Construction - Well Equipping	Building Construction	7/15/2023	8/18/2023	5	25	
30	Well - SM-11 Building Construction - Artistic Fencing	Building Construction	8/19/2023	9/8/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,944 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Well - SM-10 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-10 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-10 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-10 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40

Well - SM-10 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-8 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-8 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-8 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-8 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-8 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-9 Grading Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-9 Grading Well Pad	Excavators	1	4.00	158	0.38
Well - SM-9 Grading Well Pad	Graders	0	8.00	187	0.41
Well - SM-9 Grading Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-9 Grading Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-10 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-10 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-8 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74

Well - SM-8 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-8 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-9 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-10 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Artistic Fencing	Excavators	0	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20

Well - SM-8 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48
Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36

Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48
WTP - Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
WTP - Demolition	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
WTP - Site Preparation and Grading	Graders	1	8.00	187	0.41
WTP - Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Site Preparation and Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WTP - Building Construction 3	Cranes	0	8.00	231	0.29
WTP - Building Construction 3	Forklifts	0	7.00	89	0.20
WTP - Building Construction 3	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 3	Welders	0	8.00	46	0.45
WTP - Building Construction 4	Cranes	1	2.00	231	0.29
WTP - Building Construction 4	Forklifts	0	7.00	89	0.20
WTP - Building Construction 4	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 4	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 4	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 4	Welders	0	8.00	46	0.45
WTP - Building Construction 1	Cranes	1	2.00	231	0.29

WTP - Building Construction 1	Forklifts	1	4.00	89	0.20
WTP - Building Construction 1	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 1	Welders	0	8.00	46	0.45
WTP - Building Construction 2	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 2	Cranes	1	2.00	231	0.29
WTP - Building Construction 2	Forklifts	0	7.00	89	0.20
WTP - Building Construction 2	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 2	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 2	Welders	0	8.00	46	0.45
WTP - Building Construction 5	Cranes	0	8.00	231	0.29
WTP - Building Construction 5	Forklifts	0	7.00	89	0.20
WTP - Building Construction 5	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 5	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 5	Welders	0	8.00	46	0.45
WTP - Building Construction 6	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 6	Bore/Drill Rigs	1	8.00	221	0.50
WTP - Building Construction 6	Cranes	1	2.00	231	0.29
WTP - Building Construction 6	Excavators	1	4.00	158	0.38
WTP - Building Construction 6	Forklifts	0	7.00	89	0.20
WTP - Building Construction 6	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 6	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 6	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 6	Welders	0	8.00	46	0.45
WTP - Building Construction 7	Aerial Lifts	1	4.00	63	0.31

WTP - Building Construction 7	Cranes	1	2.00	231	0.29
WTP - Building Construction 7	Forklifts	0	7.00	89	0.20
WTP - Building Construction 7	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 7	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 7	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 7	Welders	0	8.00	46	0.45
WTP - Architectural Coating	Air Compressors	1	8.00	78	0.48
WTP - Paving	Cement and Mortar Mixers	0	8.00	9	0.56
WTP - Paving	Pavers	1	8.00	130	0.42
WTP - Paving	Paving Equipment	0	8.00	132	0.36
WTP - Paving	Rollers	1	8.00	80	0.38
WTP - Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Well - SM-11 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-11 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-11 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-11 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-11 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-11 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-11 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29

Well - SM-11 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Well - SM-10 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Grading Well Pad	2	12.00	6.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	510.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Demolition	5	14.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

WTP - Site Preparation and Gradi	4	12.00	0.00	84.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 3	2	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 4	2	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 1	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 2	3	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 5	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 6	5	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 7	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Architectural Coating	1	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Paving	2	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.2 Well - SM-10 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	1.1000e-003	0.0000	1.1000e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**9.5600e-003**	**0.0656**	**0.0752**	**1.1000e-003**	**0.0609**	**0.0620**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.3 Well - SM-8 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	1.1000e-003	0.0000	1.1000e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**9.5600e-003**	**0.0656**	**0.0752**	**1.1000e-003**	**0.0609**	**0.0620**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0348	0.0000	0.0348	3.9800e-003	0.0000	3.9800e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0348**	**0.0656**	**0.1004**	**3.9800e-003**	**0.0609**	**0.0649**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0501	1.6311	0.3792	4.3500e-003	0.0979	5.2200e-003	0.1031	0.0268	4.9900e-003	0.0318		471.0127	471.0127	0.0338		471.8579
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1337**	**2.3127**	**1.0449**	**7.1900e-003**	**0.2705**	**9.3900e-003**	**0.2798**	**0.0735**	**8.9400e-003**	**0.0824**		**765.5726**	**765.5726**	**0.0488**		**766.7928**

3.4 Well - SM-9 Grading Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0157	0.0000	0.0157	1.7900e-003	0.0000	1.7900e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0157**	**0.0656**	**0.0812**	**1.7900e-003**	**0.0609**	**0.0627**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0501	1.6311	0.3792	4.3500e-003	0.0979	5.2200e-003	0.1031	0.0268	4.9900e-003	0.0318		471.0127	471.0127	0.0338		471.8579
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1337**	**2.3127**	**1.0449**	**7.1900e-003**	**0.2705**	**9.3900e-003**	**0.2798**	**0.0735**	**8.9400e-003**	**0.0824**		**765.5726**	**765.5726**	**0.0488**		**766.7928**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2462	2.5950	2.9048	4.7000e-003		0.1254	0.1254		0.1154	0.1154		455.0608	455.0608	0.1472		458.7402
Total	**0.2462**	**2.5950**	**2.9048**	**4.7000e-003**	**0.0000**	**0.1254**	**0.1254**	**0.0000**	**0.1154**	**0.1154**		**455.0608**	**455.0608**	**0.1472**		**458.7402**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0604**	**0.4202**	**0.4806**	**2.0800e-003**	**0.1374**	**1.7200e-003**	**0.1391**	**0.0370**	**1.6100e-003**	**0.0386**		**214.1633**	**214.1633**	**0.0101**		**214.4148**

3.11 Pipeline - Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2462	2.5950	2.9048	4.7000e-003		0.1254	0.1254		0.1154	0.1154	0.0000	455.0608	455.0608	0.1472		458.7402
Total	**0.2462**	**2.5950**	**2.9048**	**4.7000e-003**	**0.0000**	**0.1254**	**0.1254**	**0.0000**	**0.1154**	**0.1154**	**0.0000**	**455.0608**	**455.0608**	**0.1472**		**458.7402**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0604**	**0.4202**	**0.4806**	**2.0800e-003**	**0.1374**	**1.7200e-003**	**0.1391**	**0.0370**	**1.6100e-003**	**0.0386**		**214.1633**	**214.1633**	**0.0101**		**214.4148**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**		**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0208	0.0000	0.0208	2.5800e-003	0.0000	2.5800e-003			0.0000			0.0000
Off-Road	0.5531	5.2689	7.4838	0.0117		0.2677	0.2677		0.2463	0.2463		1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.5531**	**5.2689**	**7.4838**	**0.0117**	**0.0208**	**0.2677**	**0.2885**	**2.5800e-003**	**0.2463**	**0.2489**		**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0726	2.3080	0.5669	6.5200e-003	0.1486	7.1000e-003	0.1557	0.0407	6.8000e-003	0.0475		707.0156	707.0156	0.0506		708.2793
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0572	0.0391	0.4419	1.2900e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		128.6701	128.6701	3.7900e-003		128.7648
Total	**0.1426**	**2.7347**	**1.1211**	**8.8100e-003**	**0.3084**	**9.0000e-003**	**0.3174**	**0.0837**	**8.5800e-003**	**0.0923**		**942.6240**	**942.6240**	**0.0612**		**944.1549**

3.13 Pipeline - Grading - Installation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3400e-003	0.0000	9.3400e-003	1.1600e-003	0.0000	1.1600e-003			0.0000			0.0000
Off-Road	0.5531	5.2689	7.4838	0.0117		0.2677	0.2677		0.2463	0.2463	0.0000	1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.5531**	**5.2689**	**7.4838**	**0.0117**	**9.3400e-003**	**0.2677**	**0.2770**	**1.1600e-003**	**0.2463**	**0.2474**	**0.0000**	**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0726	2.3080	0.5669	6.5200e-003	0.1486	7.1000e-003	0.1557	0.0407	6.8000e-003	0.0475		707.0156	707.0156	0.0506		708.2793
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0572	0.0391	0.4419	1.2900e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		128.6701	128.6701	3.7900e-003		128.7648
Total	**0.1426**	**2.7347**	**1.1211**	**8.8100e-003**	**0.3084**	**9.0000e-003**	**0.3174**	**0.0837**	**8.5800e-003**	**0.0923**		**942.6240**	**942.6240**	**0.0612**		**944.1549**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4659**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.14 Pipeline - Continual Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4659**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.15 Pipeline - Continual Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6165**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.16 Pipeline - Final Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6165**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.17 Pipeline - Final Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.18 WTP - Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2254	0.0000	0.2254	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**1.6889**	**16.6217**	**13.9605**	**0.0241**	**0.2254**	**0.8379**	**1.0633**	**0.0341**	**0.7829**	**0.8170**		**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0228	0.7057	0.1845	2.1200e-003	0.0490	2.0300e-003	0.0510	0.0134	1.9500e-003	0.0154		230.1087	230.1087	0.0164		230.5183
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0412	0.4749	1.4500e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		144.8397	144.8397	3.9900e-003		144.9394
Total	**0.0855**	**0.7469**	**0.6593**	**3.5700e-003**	**0.2055**	**3.2500e-003**	**0.2087**	**0.0549**	**3.0800e-003**	**0.0580**		**374.9484**	**374.9484**	**0.0204**		**375.4577**

3.18 WTP - Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1014	0.0000	0.1014	0.0154	0.0000	0.0154			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**1.6889**	**16.6217**	**13.9605**	**0.0241**	**0.1014**	**0.8379**	**0.9393**	**0.0154**	**0.7829**	**0.7982**	**0.0000**	**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0228	0.7057	0.1845	2.1200e-003	0.0490	2.0300e-003	0.0510	0.0134	1.9500e-003	0.0154		230.1087	230.1087	0.0164		230.5183
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0412	0.4749	1.4500e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		144.8397	144.8397	3.9900e-003		144.9394
Total	**0.0855**	**0.7469**	**0.6593**	**3.5700e-003**	**0.2055**	**3.2500e-003**	**0.2087**	**0.0549**	**3.0800e-003**	**0.0580**		**374.9484**	**374.9484**	**0.0204**		**375.4577**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0587	0.0000	6.0587	3.3142	0.0000	3.3142			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**1.5403**	**16.9836**	**9.2202**	**0.0206**	**6.0587**	**0.7423**	**6.8010**	**3.3142**	**0.6829**	**3.9971**		**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0341	1.0585	0.2767	3.1800e-003	0.0734	3.0500e-003	0.0765	0.0201	2.9200e-003	0.0231		345.1630	345.1630	0.0246		345.7774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0879**	**1.0939**	**0.6837**	**4.4300e-003**	**0.2076**	**4.1000e-003**	**0.2117**	**0.0557**	**3.8900e-003**	**0.0596**		**469.3114**	**469.3114**	**0.0280**		**470.0112**

3.19 WTP - Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7264	0.0000	2.7264	1.4914	0.0000	1.4914			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**1.5403**	**16.9836**	**9.2202**	**0.0206**	**2.7264**	**0.7423**	**3.4687**	**1.4914**	**0.6829**	**2.1743**	**0.0000**	**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0341	1.0585	0.2767	3.1800e-003	0.0734	3.0500e-003	0.0765	0.0201	2.9200e-003	0.0231		345.1630	345.1630	0.0246		345.7774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0879**	**1.0939**	**0.6837**	**4.4300e-003**	**0.2076**	**4.1000e-003**	**0.2117**	**0.0557**	**3.8900e-003**	**0.0596**		**469.3114**	**469.3114**	**0.0280**		**470.0112**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4947	4.6039	5.9139	9.6900e-003		0.2370	0.2370		0.2298	0.2298		924.2735	924.2735	0.1270		927.4492
Total	**0.4947**	**4.6039**	**5.9139**	**9.6900e-003**		**0.2370**	**0.2370**		**0.2298**	**0.2298**		**924.2735**	**924.2735**	**0.1270**		**927.4492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.20 WTP - Building Construction 3 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4947	4.6039	5.9139	9.6900e-003		0.2370	0.2370		0.2298	0.2298	0.0000	924.2735	924.2735	0.1270		927.4492
Total	**0.4947**	**4.6039**	**5.9139**	**9.6900e-003**		**0.2370**	**0.2370**		**0.2298**	**0.2298**	**0.0000**	**924.2735**	**924.2735**	**0.1270**		**927.4492**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2051	2.5264	2.7615	4.8900e-003		0.0951	0.0951		0.0875	0.0875		473.4621	473.4621	0.1531		477.2902
Total	**0.2051**	**2.5264**	**2.7615**	**4.8900e-003**		**0.0951**	**0.0951**		**0.0875**	**0.0875**		**473.4621**	**473.4621**	**0.1531**		**477.2902**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	**0.0776**	**0.2313**	**0.5958**	**2.1600e-003**	**0.1916**	**1.7600e-003**	**0.1934**	**0.0511**	**1.6300e-003**	**0.0528**		**218.5252**	**218.5252**	**7.8900e-003**		**218.7224**

3.21 WTP - Building Construction 4 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2051	2.5264	2.7615	4.8900e-003		0.0951	0.0951		0.0875	0.0875	0.0000	473.4621	473.4621	0.1531		477.2902
Total	**0.2051**	**2.5264**	**2.7615**	**4.8900e-003**		**0.0951**	**0.0951**		**0.0875**	**0.0875**	**0.0000**	**473.4621**	**473.4621**	**0.1531**		**477.2902**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	**0.0776**	**0.2313**	**0.5958**	**2.1600e-003**	**0.1916**	**1.7600e-003**	**0.1934**	**0.0511**	**1.6300e-003**	**0.0528**		**218.5252**	**218.5252**	**7.8900e-003**		**218.7224**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6447	6.1774	6.9638	0.0119		0.3154	0.3154		0.3019	0.3019		1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.6447**	**6.1774**	**6.9638**	**0.0119**		**0.3154**	**0.3154**		**0.3019**	**0.3019**		**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0448	0.0295	0.3392	1.0400e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		103.4570	103.4570	2.8500e-003		103.5282
Total	**0.0508**	**0.2136**	**0.3923**	**1.5400e-003**	**0.1246**	**1.2300e-003**	**0.1258**	**0.0333**	**1.1500e-003**	**0.0345**		**156.4510**	**156.4510**	**6.1800e-003**		**156.6055**

3.22 WTP - Building Construction 1 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6447	6.1774	6.9638	0.0119		0.3154	0.3154		0.3019	0.3019	0.0000	1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.6447**	**6.1774**	**6.9638**	**0.0119**		**0.3154**	**0.3154**		**0.3019**	**0.3019**	**0.0000**	**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0448	0.0295	0.3392	1.0400e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		103.4570	103.4570	2.8500e-003		103.5282
Total	**0.0508**	**0.2136**	**0.3923**	**1.5400e-003**	**0.1246**	**1.2300e-003**	**0.1258**	**0.0333**	**1.1500e-003**	**0.0345**		**156.4510**	**156.4510**	**6.1800e-003**		**156.6055**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.23 WTP - Building Construction 2 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	1.4803	2.2884	3.4500e-003		0.0516	0.0516		0.0475	0.0475		333.7545	333.7545	0.1079		336.4531
Total	**0.1119**	**1.4803**	**2.2884**	**3.4500e-003**		**0.0516**	**0.0516**		**0.0475**	**0.0475**		**333.7545**	**333.7545**	**0.1079**		**336.4531**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.24 WTP - Building Construction 5 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	1.4803	2.2884	3.4500e-003		0.0516	0.0516		0.0475	0.0475	0.0000	333.7545	333.7545	0.1079		336.4531
Total	**0.1119**	**1.4803**	**2.2884**	**3.4500e-003**		**0.0516**	**0.0516**		**0.0475**	**0.0475**	**0.0000**	**333.7545**	**333.7545**	**0.1079**		**336.4531**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.9614	6.9772	0.0178		0.2160	0.2160		0.1987	0.1987		1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.5485**	**5.9614**	**6.9772**	**0.0178**		**0.2160**	**0.2160**		**0.1987**	**0.1987**		**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.1075	0.0707	0.8140	2.4900e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		248.2967	248.2967	6.8400e-003		248.4676
Total	**0.1135**	**0.2549**	**0.8672**	**2.9900e-003**	**0.2811**	**2.4600e-003**	**0.2835**	**0.0748**	**2.2700e-003**	**0.0771**		**301.2907**	**301.2907**	**0.0102**		**301.5449**

3.25 WTP - Building Construction 6 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.9614	6.9772	0.0178		0.2160	0.2160		0.1987	0.1987	0.0000	1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.5485**	**5.9614**	**6.9772**	**0.0178**		**0.2160**	**0.2160**		**0.1987**	**0.1987**	**0.0000**	**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.1075	0.0707	0.8140	2.4900e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		248.2967	248.2967	6.8400e-003		248.4676
Total	**0.1135**	**0.2549**	**0.8672**	**2.9900e-003**	**0.2811**	**2.4600e-003**	**0.2835**	**0.0748**	**2.2700e-003**	**0.0771**		**301.2907**	**301.2907**	**0.0102**		**301.5449**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.26 WTP - Building Construction 7 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**1.6246**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.27 WTP - Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**1.6246**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	**1.6074**	**1.7373**	**2.4148**	**3.9600e-003**		**0.0944**	**0.0944**		**0.0944**	**0.0944**		**375.2641**	**375.2641**	**0.0225**		**375.8253**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0551**	**0.1715**	**0.4214**	**1.6800e-003**	**0.1469**	**1.1900e-003**	**0.1481**	**0.0393**	**1.1000e-003**	**0.0404**		**170.9547**	**170.9547**	**6.0100e-003**		**171.1050**

3.27 WTP - Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	**1.6074**	**1.7373**	**2.4148**	**3.9600e-003**		**0.0944**	**0.0944**		**0.0944**	**0.0944**	**0.0000**	**375.2641**	**375.2641**	**0.0225**		**375.8253**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0551**	**0.1715**	**0.4214**	**1.6800e-003**	**0.1469**	**1.1900e-003**	**0.1481**	**0.0393**	**1.1000e-003**	**0.0404**		**170.9547**	**170.9547**	**6.0100e-003**		**171.1050**

3.28 WTP - Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3732	3.8248	4.7443	7.3300e-003		0.1992	0.1992		0.1833	0.1833		709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4518**	**3.8248**	**4.7443**	**7.3300e-003**		**0.1992**	**0.1992**		**0.1833**	**0.1833**		**709.3618**	**709.3618**	**0.2294**		**715.0973**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003		105.9881	105.9881	6.6600e-003		106.1546
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0657**	**0.4037**	**0.5133**	**2.2400e-003**	**0.1597**	**1.7700e-003**	**0.1615**	**0.0429**	**1.6600e-003**	**0.0446**		**230.1364**	**230.1364**	**0.0101**		**230.3884**

3.28 WTP - Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3732	3.8248	4.7443	7.3300e-003		0.1992	0.1992		0.1833	0.1833	0.0000	709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4518**	**3.8248**	**4.7443**	**7.3300e-003**		**0.1992**	**0.1992**		**0.1833**	**0.1833**	**0.0000**	**709.3618**	**709.3618**	**0.2294**		**715.0973**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003		105.9881	105.9881	6.6600e-003		106.1546
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0657**	**0.4037**	**0.5133**	**2.2400e-003**	**0.1597**	**1.7700e-003**	**0.1615**	**0.0429**	**1.6600e-003**	**0.0446**		**230.1364**	**230.1364**	**0.0101**		**230.3884**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1237	0.9584	1.7831	2.9400e-003		0.0451	0.0451		0.0420	0.0420		275.3110	275.3110	0.0835		277.3983
Total	**0.1237**	**0.9584**	**1.7831**	**2.9400e-003**	**0.0213**	**0.0451**	**0.0663**	**2.4300e-003**	**0.0420**	**0.0445**		**275.3110**	**275.3110**	**0.0835**		**277.3983**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0192	0.5960	0.2133	2.6000e-003	0.0630	1.1000e-003	0.0641	0.0173	1.0500e-003	0.0183		283.5498	283.5498	0.0195		284.0373
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116		154.0448	154.0448	8.8000e-003		154.2647
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0832**	**1.0464**	**0.7292**	**5.2400e-003**	**0.2355**	**2.6300e-003**	**0.2381**	**0.0639**	**2.4800e-003**	**0.0664**		**557.2010**	**557.2010**	**0.0314**		**557.9854**

3.29 Well - SM-11 Grading - Well Pad - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	1.1000e-003	0.0000	1.1000e-003			0.0000			0.0000
Off-Road	0.1237	0.9584	1.7831	2.9400e-003		0.0451	0.0451		0.0420	0.0420	0.0000	275.3110	275.3110	0.0835		277.3983
Total	**0.1237**	**0.9584**	**1.7831**	**2.9400e-003**	**9.5600e-003**	**0.0451**	**0.0546**	**1.1000e-003**	**0.0420**	**0.0431**	**0.0000**	**275.3110**	**275.3110**	**0.0835**		**277.3983**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0192	0.5960	0.2133	2.6000e-003	0.0630	1.1000e-003	0.0641	0.0173	1.0500e-003	0.0183		283.5498	283.5498	0.0195		284.0373
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116		154.0448	154.0448	8.8000e-003		154.2647
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0832**	**1.0464**	**0.7292**	**5.2400e-003**	**0.2355**	**2.6300e-003**	**0.2381**	**0.0639**	**2.4800e-003**	**0.0664**		**557.2010**	**557.2010**	**0.0314**		**557.9854**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1212	1.0293	1.8830	3.7700e-003		0.0462	0.0462		0.0425	0.0425		364.4782	364.4782	0.1179		367.4252
Total	**0.1212**	**1.0293**	**1.8830**	**3.7700e-003**		**0.0462**	**0.0462**		**0.0425**	**0.0425**		**364.4782**	**364.4782**	**0.1179**		**367.4252**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1212	1.0293	1.8830	3.7700e-003		0.0462	0.0462		0.0425	0.0425	0.0000	364.4782	364.4782	0.1179		367.4252
Total	**0.1212**	**1.0293**	**1.8830**	**3.7700e-003**		**0.0462**	**0.0462**		**0.0425**	**0.0425**	**0.0000**	**364.4782**	**364.4782**	**0.1179**		**367.4252**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0943	0.7743	1.6289	2.5800e-003		0.0379	0.0379		0.0349	0.0349		250.0528	250.0528	0.0809		252.0746
Total	**0.0943**	**0.7743**	**1.6289**	**2.5800e-003**		**0.0379**	**0.0379**		**0.0349**	**0.0349**		**250.0528**	**250.0528**	**0.0809**		**252.0746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0943	0.7743	1.6289	2.5800e-003		0.0379	0.0379		0.0349	0.0349	0.0000	250.0528	250.0528	0.0809		252.0746
Total	**0.0943**	**0.7743**	**1.6289**	**2.5800e-003**		**0.0379**	**0.0379**		**0.0349**	**0.0349**	**0.0000**	**250.0528**	**250.0528**	**0.0809**		**252.0746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932
Unmitigated	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Industrial Park	2.00	0.00	0.00	10,400	10,400
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	2.00	0.00	0.00	10,400	10,400

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	20.00	20.00	20.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
NaturalGas Unmitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	520.685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.520685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Unmitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Unmitigated

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.50	1000sqft	0.24	10,500.00	0
Industrial Park	1.00	1000sqft	0.00	1,000.00	0
User Defined Industrial	0.74	User Defined Unit	0.74	32,400.00	0
User Defined Industrial	0.63	User Defined Unit	0.63	27,300.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	30,056.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.
Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-10 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-11 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-8 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-9 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - WTP - Architectural Coating: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 1: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 2: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 3: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 4: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 5: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 6: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 7: Applicant-provided data.

Off-road Equipment - WTP - Demolition: Applicant-provided data.

Off-road Equipment - WTP - Paving: Applicant-provided data.

Off-road Equipment - WTP - Site Preparation and Grading: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - Demolition: WTP - Demolition. 5,725 SF total.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of new buildings and asphalt surface striping.

Vehicle Trips - No net new worker operational trips anticipated. Minimal, infrequent net new truck deliveries anticipated (maximum 2 one-way trips per day).

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Road Dust - Operational mobile source emissions not estimated.

Woodstoves - No hearths.

Consumer Products - CalEEMod default values.

Area Coating - Operational architectural coating for 10,500 SF of building (conservative as some surfaces would not require coating).

Landscape Equipment - No increase in landscape maintenance activity from existing conditions.

Energy Use - CalEEMod default values for General Light Industry.

Water And Wastewater - CalEEMod default values for water use. 100% aerobic.

Solid Waste - CalEEMod default values.

Construction Off-road Equipment Mitigation - Water Exposed Area, Frequency: 2 times per day.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No area mitigation.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water mitigation.

Waste Mitigation - Percent Reduction in Waste Disposed: 50%. Waste diversion consistent with Assembly Bill 939.

Operational Off-Road Equipment - No operational offroad equipment.

Fleet Mix - Industrial Park: 50% MHDT/50% HHDT.

Stationary Sources - User Defined - No operational stationary sources.

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Unmitigated - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	15,750.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	35600	5250
tblAreaCoating	Area_Nonresidential_Interior	106800	15750
tblAreaCoating	Area_Parking	1803	1944
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripNumber	509.00	510.00
tblTripsAndVMT	HaulingTripNumber	26.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	84.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
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tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
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tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00

tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	10.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
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tblTripsAndVMT	WorkerTripNumber	43.00	10.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	24.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
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tblTripsAndVMT	WorkerTripNumber	5.00	12.00
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tblTripsAndVMT	WorkerTripNumber	5.00	12.00
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tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
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tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblVehicleTrips	CC_TL	8.40	20.00
tblVehicleTrips	CNW_TL	6.90	20.00
tblVehicleTrips	CW_TL	16.60	20.00

tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	6.83	2.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.7971	9.8843	8.2579	0.0279	0.8187	0.2209	1.0396	0.2101	0.2057	0.4158	0.0000	2,843.4619	2,843.4619	0.3720	0.0000	2,852.6827
2021	9.0398	13.8824	14.4112	0.0331	0.5625	0.5304	1.0929	0.1499	0.4889	0.6388	0.0000	3,317.2048	3,317.2048	0.6801	0.0000	3,334.2065
2022	3.3892	35.4188	31.5485	0.0655	6.6971	1.5875	8.2846	3.4589	1.4727	4.9316	0.0000	6,370.5262	6,370.5262	1.3631	0.0000	6,404.6024
2023	1.6569	1.9994	2.8689	8.3400e-003	0.2567	0.0956	0.3044	0.0663	0.0955	0.1348	0.0000	849.2366	849.2366	0.1228	0.0000	852.0878
Maximum	**9.0398**	**35.4188**	**31.5485**	**0.0655**	**6.6971**	**1.5875**	**8.2846**	**3.4589**	**1.4727**	**4.9316**	**0.0000**	**6,370.5262**	**6,370.5262**	**1.3631**	**0.0000**	**6,404.6024**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.7971	9.8843	8.2579	0.0279	0.7762	0.2209	0.9971	0.2052	0.2057	0.4109	0.0000	2,843.4619	2,843.4619	0.3720	0.0000	2,852.6827
2021	9.0398	13.8824	14.4112	0.0331	0.5510	0.5304	1.0814	0.1485	0.4889	0.6374	0.0000	3,317.2048	3,317.2048	0.6801	0.0000	3,334.2065
2022	3.3892	35.4188	31.5485	0.0655	3.2409	1.5875	4.8283	1.6174	1.4727	3.0900	0.0000	6,370.5262	6,370.5262	1.3631	0.0000	6,404.6024
2023	1.6569	1.9994	2.8689	8.3400e-003	0.2451	0.0956	0.2927	0.0650	0.0955	0.1348	0.0000	849.2366	849.2366	0.1228	0.0000	852.0878
Maximum	**9.0398**	**35.4188**	**31.5485**	**0.0655**	**3.2409**	**1.5875**	**4.8283**	**1.6174**	**1.4727**	**3.0900**	**0.0000**	**6,370.5262**	**6,370.5262**	**1.3631**	**0.0000**	**6,404.6024**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**42.25**	**0.00**	**32.85**	**47.60**	**0.00**	**30.19**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076
Total	**1.4629**	**0.2683**	**0.1259**	**1.5300e-003**	**0.0370**	**4.3000e-003**	**0.0413**	**0.0106**	**4.2800e-003**	**0.0149**		**191.4295**	**191.4295**	**6.7000e-003**	**1.1200e-003**	**191.9318**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076
Total	**1.4629**	**0.2683**	**0.1259**	**1.5300e-003**	**0.0370**	**4.3000e-003**	**0.0413**	**0.0106**	**4.2800e-003**	**0.0149**		**191.4295**	**191.4295**	**6.7000e-003**	**1.1200e-003**	**191.9318**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Well - SM-10 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
2	Well - SM-8 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
3	Well - SM-9 Grading Well Pad	Grading	11/27/2020	12/10/2020	5	10	
4	Well - SM-10 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
5	Well - SM-8 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
6	Well - SM-9 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
7	Well - SM-10 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
8	Well - SM-8 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
9	Well - SM-9 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
10	Pipeline - Site Preparation	Site Preparation	2/28/2021	3/5/2021	5	5	
11	Pipeline - Grading - Slurry Backfill	Grading	3/6/2021	5/28/2021	5	60	
12	Pipeline - Grading - Installation	Grading	3/6/2021	5/28/2021	5	60	
13	Pipeline - Continual Paving	Paving	3/6/2021	5/28/2021	5	60	
14	Pipeline - Continual Pavement Striping	Architectural Coating	3/6/2021	5/28/2021	5	60	
15	Pipeline - Final Paving	Paving	5/29/2021	6/11/2021	5	10	
16	Pipeline - Final Pavement Striping	Architectural Coating	6/14/2021	6/14/2021	5	1	
17	WTP - Demolition	Demolition	1/21/2022	2/24/2022	5	25	

18	WTP - Site Preparation and Grading	Grading	2/1/2022	2/28/2022	5	20	
19	WTP - Building Construction 3	Building Construction	3/1/2022	9/1/2022	5	133	
20	WTP - Building Construction 4	Building Construction	3/1/2022	9/15/2022	5	143	
21	WTP - Building Construction 1	Building Construction	3/1/2022	6/1/2022	5	67	
22	WTP - Building Construction 2	Building Construction	3/1/2022	7/1/2022	5	89	
23	WTP - Building Construction 5	Building Construction	4/1/2022	5/13/2022	5	31	
24	WTP - Building Construction 6	Building Construction	5/1/2022	9/1/2022	5	89	
25	WTP - Building Construction 7	Building Construction	8/1/2022	11/1/2022	5	67	
26	WTP - Architectural Coating	Architectural Coating	10/15/2022	1/24/2023	5	72	
27	WTP - Paving	Paving	11/1/2022	12/1/2022	5	23	
28	Well - SM-11 Grading - Well Pad	Grading	7/1/2023	7/14/2023	5	10	
29	Well - SM-11 Building Construction - Well Equipping	Building Construction	7/15/2023	8/18/2023	5	25	
30	Well - SM-11 Building Construction - Artistic Fencing	Building Construction	8/19/2023	9/8/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,944 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Well - SM-10 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-10 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-10 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-10 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40

Well - SM-10 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-8 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-8 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-8 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-8 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-8 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-9 Grading Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-9 Grading Well Pad	Excavators	1	4.00	158	0.38
Well - SM-9 Grading Well Pad	Graders	0	8.00	187	0.41
Well - SM-9 Grading Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-9 Grading Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-10 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-10 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-8 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74

Well - SM-8 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-8 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-9 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-10 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Artistic Fencing	Excavators	0	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20

Well - SM-8 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48
Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36

Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48
WTP - Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
WTP - Demolition	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
WTP - Site Preparation and Grading	Graders	1	8.00	187	0.41
WTP - Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Site Preparation and Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WTP - Building Construction 3	Cranes	0	8.00	231	0.29
WTP - Building Construction 3	Forklifts	0	7.00	89	0.20
WTP - Building Construction 3	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 3	Welders	0	8.00	46	0.45
WTP - Building Construction 4	Cranes	1	2.00	231	0.29
WTP - Building Construction 4	Forklifts	0	7.00	89	0.20
WTP - Building Construction 4	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 4	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 4	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 4	Welders	0	8.00	46	0.45
WTP - Building Construction 1	Cranes	1	2.00	231	0.29

WTP - Building Construction 1	Forklifts	1	4.00	89	0.20
WTP - Building Construction 1	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 1	Welders	0	8.00	46	0.45
WTP - Building Construction 2	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 2	Cranes	1	2.00	231	0.29
WTP - Building Construction 2	Forklifts	0	7.00	89	0.20
WTP - Building Construction 2	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 2	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 2	Welders	0	8.00	46	0.45
WTP - Building Construction 5	Cranes	0	8.00	231	0.29
WTP - Building Construction 5	Forklifts	0	7.00	89	0.20
WTP - Building Construction 5	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 5	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 5	Welders	0	8.00	46	0.45
WTP - Building Construction 6	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 6	Bore/Drill Rigs	1	8.00	221	0.50
WTP - Building Construction 6	Cranes	1	2.00	231	0.29
WTP - Building Construction 6	Excavators	1	4.00	158	0.38
WTP - Building Construction 6	Forklifts	0	7.00	89	0.20
WTP - Building Construction 6	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 6	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 6	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 6	Welders	0	8.00	46	0.45
WTP - Building Construction 7	Aerial Lifts	1	4.00	63	0.31

WTP - Building Construction 7	Cranes	1	2.00	231	0.29
WTP - Building Construction 7	Forklifts	0	7.00	89	0.20
WTP - Building Construction 7	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 7	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 7	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 7	Welders	0	8.00	46	0.45
WTP - Architectural Coating	Air Compressors	1	8.00	78	0.48
WTP - Paving	Cement and Mortar Mixers	0	8.00	9	0.56
WTP - Paving	Pavers	1	8.00	130	0.42
WTP - Paving	Paving Equipment	0	8.00	132	0.36
WTP - Paving	Rollers	1	8.00	80	0.38
WTP - Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Well - SM-11 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-11 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-11 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-11 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-11 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-11 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-11 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29

Well - SM-11 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Well - SM-10 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Grading Well Pad	2	12.00	6.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	510.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Demolition	5	14.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

WTP - Site Preparation and Gradi	4	12.00	0.00	84.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 3	2	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 4	2	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 1	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 2	3	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 5	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 6	5	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 7	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Architectural Coating	1	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Paving	2	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.2 Well - SM-10 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	1.1000e-003	0.0000	1.1000e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**9.5600e-003**	**0.0656**	**0.0752**	**1.1000e-003**	**0.0609**	**0.0620**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.3 Well - SM-8 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	1.1000e-003	0.0000	1.1000e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**9.5600e-003**	**0.0656**	**0.0752**	**1.1000e-003**	**0.0609**	**0.0620**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0348	0.0000	0.0348	3.9800e-003	0.0000	3.9800e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0348**	**0.0656**	**0.1004**	**3.9800e-003**	**0.0609**	**0.0649**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0489	1.6102	0.3568	4.4200e-003	0.0979	5.1400e-003	0.1031	0.0268	4.9200e-003	0.0318		479.2658	479.2658	0.0326		480.0814
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1255**	**2.2878**	**1.0494**	**7.4000e-003**	**0.2705**	**9.2600e-003**	**0.2797**	**0.0735**	**8.8200e-003**	**0.0823**		**786.6142**	**786.6142**	**0.0472**		**787.7945**

3.4 Well - SM-9 Grading Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0157	0.0000	0.0157	1.7900e-003	0.0000	1.7900e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0157**	**0.0656**	**0.0812**	**1.7900e-003**	**0.0609**	**0.0627**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0489	1.6102	0.3568	4.4200e-003	0.0979	5.1400e-003	0.1031	0.0268	4.9200e-003	0.0318		479.2658	479.2658	0.0326		480.0814
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1255**	**2.2878**	**1.0494**	**7.4000e-003**	**0.2705**	**9.2600e-003**	**0.2797**	**0.0735**	**8.8200e-003**	**0.0823**		**786.6142**	**786.6142**	**0.0472**		**787.7945**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2462	2.5950	2.9048	4.7000e-003		0.1254	0.1254		0.1154	0.1154		455.0608	455.0608	0.1472		458.7402
Total	**0.2462**	**2.5950**	**2.9048**	**4.7000e-003**	**0.0000**	**0.1254**	**0.1254**	**0.0000**	**0.1154**	**0.1154**		**455.0608**	**455.0608**	**0.1472**		**458.7402**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0550**	**0.4178**	**0.5043**	**2.1700e-003**	**0.1374**	**1.6900e-003**	**0.1391**	**0.0370**	**1.5900e-003**	**0.0386**		**223.8292**	**223.8292**	**9.8400e-003**		**224.0751**

3.11 Pipeline - Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2462	2.5950	2.9048	4.7000e-003		0.1254	0.1254		0.1154	0.1154	0.0000	455.0608	455.0608	0.1472		458.7402
Total	**0.2462**	**2.5950**	**2.9048**	**4.7000e-003**	**0.0000**	**0.1254**	**0.1254**	**0.0000**	**0.1154**	**0.1154**	**0.0000**	**455.0608**	**455.0608**	**0.1472**		**458.7402**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0550**	**0.4178**	**0.5043**	**2.1700e-003**	**0.1374**	**1.6900e-003**	**0.1391**	**0.0370**	**1.5900e-003**	**0.0386**		**223.8292**	**223.8292**	**9.8400e-003**		**224.0751**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**		**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0208	0.0000	0.0208	2.5800e-003	0.0000	2.5800e-003			0.0000			0.0000
Off-Road	0.5531	5.2689	7.4838	0.0117		0.2677	0.2677		0.2463	0.2463		1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.5531**	**5.2689**	**7.4838**	**0.0117**	**0.0208**	**0.2677**	**0.2885**	**2.5800e-003**	**0.2463**	**0.2489**		**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0709	2.2801	0.5346	6.6300e-003	0.1486	7.0000e-003	0.1556	0.0407	6.7000e-003	0.0474		719.4793	719.4793	0.0488		720.7000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0514	0.0354	0.4833	1.3700e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		136.6524	136.6524	4.0300e-003		136.7530
Total	**0.1345**	**2.7038**	**1.1195**	**9.0300e-003**	**0.3084**	**8.8700e-003**	**0.3172**	**0.0837**	**8.4600e-003**	**0.0921**		**966.0840**	**966.0840**	**0.0593**		**967.5672**

3.13 Pipeline - Grading - Installation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3400e-003	0.0000	9.3400e-003	1.1600e-003	0.0000	1.1600e-003			0.0000			0.0000
Off-Road	0.5531	5.2689	7.4838	0.0117		0.2677	0.2677		0.2463	0.2463	0.0000	1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.5531**	**5.2689**	**7.4838**	**0.0117**	**9.3400e-003**	**0.2677**	**0.2770**	**1.1600e-003**	**0.2463**	**0.2474**	**0.0000**	**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0709	2.2801	0.5346	6.6300e-003	0.1486	7.0000e-003	0.1556	0.0407	6.7000e-003	0.0474		719.4793	719.4793	0.0488		720.7000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0514	0.0354	0.4833	1.3700e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		136.6524	136.6524	4.0300e-003		136.7530
Total	**0.1345**	**2.7038**	**1.1195**	**9.0300e-003**	**0.3084**	**8.8700e-003**	**0.3172**	**0.0837**	**8.4600e-003**	**0.0921**		**966.0840**	**966.0840**	**0.0593**		**967.5672**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4659**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.14 Pipeline - Continual Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4659**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.15 Pipeline - Continual Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6165**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.16 Pipeline - Final Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6165**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.17 Pipeline - Final Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.18 WTP - Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2254	0.0000	0.2254	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**1.6889**	**16.6217**	**13.9605**	**0.0241**	**0.2254**	**0.8379**	**1.0633**	**0.0341**	**0.7829**	**0.8170**		**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0222	0.6977	0.1743	2.1600e-003	0.0490	2.0000e-003	0.0510	0.0134	1.9200e-003	0.0153		234.2018	234.2018	0.0158		234.5979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0373	0.5202	1.5400e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		153.8197	153.8197	4.2500e-003		153.9259
Total	**0.0784**	**0.7350**	**0.6946**	**3.7000e-003**	**0.2055**	**3.2200e-003**	**0.2087**	**0.0549**	**3.0500e-003**	**0.0580**		**388.0215**	**388.0215**	**0.0201**		**388.5237**

3.18 WTP - Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1014	0.0000	0.1014	0.0154	0.0000	0.0154			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**1.6889**	**16.6217**	**13.9605**	**0.0241**	**0.1014**	**0.8379**	**0.9393**	**0.0154**	**0.7829**	**0.7982**	**0.0000**	**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0222	0.6977	0.1743	2.1600e-003	0.0490	2.0000e-003	0.0510	0.0134	1.9200e-003	0.0153		234.2018	234.2018	0.0158		234.5979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0373	0.5202	1.5400e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		153.8197	153.8197	4.2500e-003		153.9259
Total	**0.0784**	**0.7350**	**0.6946**	**3.7000e-003**	**0.2055**	**3.2200e-003**	**0.2087**	**0.0549**	**3.0500e-003**	**0.0580**		**388.0215**	**388.0215**	**0.0201**		**388.5237**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0587	0.0000	6.0587	3.3142	0.0000	3.3142			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**1.5403**	**16.9836**	**9.2202**	**0.0206**	**6.0587**	**0.7423**	**6.8010**	**3.3142**	**0.6829**	**3.9971**		**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0333	1.0466	0.2615	3.2300e-003	0.0734	3.0000e-003	0.0765	0.0201	2.8700e-003	0.0230		351.3027	351.3027	0.0238		351.8968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0815**	**1.0785**	**0.7074**	**4.5500e-003**	**0.2076**	**4.0500e-003**	**0.2116**	**0.0557**	**3.8400e-003**	**0.0596**		**483.1482**	**483.1482**	**0.0274**		**483.8332**

3.19 WTP - Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7264	0.0000	2.7264	1.4914	0.0000	1.4914			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**1.5403**	**16.9836**	**9.2202**	**0.0206**	**2.7264**	**0.7423**	**3.4687**	**1.4914**	**0.6829**	**2.1743**	**0.0000**	**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0333	1.0466	0.2615	3.2300e-003	0.0734	3.0000e-003	0.0765	0.0201	2.8700e-003	0.0230		351.3027	351.3027	0.0238		351.8968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0815**	**1.0785**	**0.7074**	**4.5500e-003**	**0.2076**	**4.0500e-003**	**0.2116**	**0.0557**	**3.8400e-003**	**0.0596**		**483.1482**	**483.1482**	**0.0274**		**483.8332**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4947	4.6039	5.9139	9.6900e-003		0.2370	0.2370		0.2298	0.2298		924.2735	924.2735	0.1270		927.4492
Total	**0.4947**	**4.6039**	**5.9139**	**9.6900e-003**		**0.2370**	**0.2370**		**0.2298**	**0.2298**		**924.2735**	**924.2735**	**0.1270**		**927.4492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.20 WTP - Building Construction 3 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4947	4.6039	5.9139	9.6900e-003		0.2370	0.2370		0.2298	0.2298	0.0000	924.2735	924.2735	0.1270		927.4492
Total	**0.4947**	**4.6039**	**5.9139**	**9.6900e-003**		**0.2370**	**0.2370**		**0.2298**	**0.2298**	**0.0000**	**924.2735**	**924.2735**	**0.1270**		**927.4492**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2051	2.5264	2.7615	4.8900e-003		0.0951	0.0951		0.0875	0.0875		473.4621	473.4621	0.1531		477.2902
Total	**0.2051**	**2.5264**	**2.7615**	**4.8900e-003**		**0.0951**	**0.0951**		**0.0875**	**0.0875**		**473.4621**	**473.4621**	**0.1531**		**477.2902**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	**0.0700**	**0.2272**	**0.6426**	**2.2700e-003**	**0.1916**	**1.7500e-003**	**0.1934**	**0.0511**	**1.6200e-003**	**0.0527**		**230.2912**	**230.2912**	**7.9800e-003**		**230.4906**

3.21 WTP - Building Construction 4 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2051	2.5264	2.7615	4.8900e-003		0.0951	0.0951		0.0875	0.0875	0.0000	473.4621	473.4621	0.1531		477.2902
Total	**0.2051**	**2.5264**	**2.7615**	**4.8900e-003**		**0.0951**	**0.0951**		**0.0875**	**0.0875**	**0.0000**	**473.4621**	**473.4621**	**0.1531**		**477.2902**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	**0.0700**	**0.2272**	**0.6426**	**2.2700e-003**	**0.1916**	**1.7500e-003**	**0.1934**	**0.0511**	**1.6200e-003**	**0.0527**		**230.2912**	**230.2912**	**7.9800e-003**		**230.4906**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6447	6.1774	6.9638	0.0119		0.3154	0.3154		0.3019	0.3019		1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.6447**	**6.1774**	**6.9638**	**0.0119**		**0.3154**	**0.3154**		**0.3019**	**0.3019**		**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0402	0.0266	0.3716	1.1000e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		109.8712	109.8712	3.0300e-003		109.9470
Total	**0.0459**	**0.2113**	**0.4196**	**1.6100e-003**	**0.1246**	**1.2200e-003**	**0.1258**	**0.0333**	**1.1400e-003**	**0.0345**		**164.3684**	**164.3684**	**6.1600e-003**		**164.5224**

3.22 WTP - Building Construction 1 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6447	6.1774	6.9638	0.0119		0.3154	0.3154		0.3019	0.3019	0.0000	1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.6447**	**6.1774**	**6.9638**	**0.0119**		**0.3154**	**0.3154**		**0.3019**	**0.3019**	**0.0000**	**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0402	0.0266	0.3716	1.1000e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		109.8712	109.8712	3.0300e-003		109.9470
Total	**0.0459**	**0.2113**	**0.4196**	**1.6100e-003**	**0.1246**	**1.2200e-003**	**0.1258**	**0.0333**	**1.1400e-003**	**0.0345**		**164.3684**	**164.3684**	**6.1600e-003**		**164.5224**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.23 WTP - Building Construction 2 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	1.4803	2.2884	3.4500e-003		0.0516	0.0516		0.0475	0.0475		333.7545	333.7545	0.1079		336.4531
Total	**0.1119**	**1.4803**	**2.2884**	**3.4500e-003**		**0.0516**	**0.0516**		**0.0475**	**0.0475**		**333.7545**	**333.7545**	**0.1079**		**336.4531**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.24 WTP - Building Construction 5 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	1.4803	2.2884	3.4500e-003		0.0516	0.0516		0.0475	0.0475	0.0000	333.7545	333.7545	0.1079		336.4531
Total	**0.1119**	**1.4803**	**2.2884**	**3.4500e-003**		**0.0516**	**0.0516**		**0.0475**	**0.0475**	**0.0000**	**333.7545**	**333.7545**	**0.1079**		**336.4531**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.9614	6.9772	0.0178		0.2160	0.2160		0.1987	0.1987		1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.5485**	**5.9614**	**6.9772**	**0.0178**		**0.2160**	**0.2160**		**0.1987**	**0.1987**		**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0964	0.0639	0.8919	2.6500e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		263.6910	263.6910	7.2800e-003		263.8729
Total	**0.1021**	**0.2485**	**0.9399**	**3.1600e-003**	**0.2811**	**2.4500e-003**	**0.2835**	**0.0748**	**2.2600e-003**	**0.0771**		**318.1881**	**318.1881**	**0.0104**		**318.4483**

3.25 WTP - Building Construction 6 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.9614	6.9772	0.0178		0.2160	0.2160		0.1987	0.1987	0.0000	1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.5485**	**5.9614**	**6.9772**	**0.0178**		**0.2160**	**0.2160**		**0.1987**	**0.1987**	**0.0000**	**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0964	0.0639	0.8919	2.6500e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		263.6910	263.6910	7.2800e-003		263.8729
Total	**0.1021**	**0.2485**	**0.9399**	**3.1600e-003**	**0.2811**	**2.4500e-003**	**0.2835**	**0.0748**	**2.2600e-003**	**0.0771**		**318.1881**	**318.1881**	**0.0104**		**318.4483**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.26 WTP - Building Construction 7 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**1.6246**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.27 WTP - Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**1.6246**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	**1.6074**	**1.7373**	**2.4148**	**3.9600e-003**		**0.0944**	**0.0944**		**0.0944**	**0.0944**		**375.2641**	**375.2641**	**0.0225**		**375.8253**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0495**	**0.1690**	**0.4540**	**1.7600e-003**	**0.1469**	**1.1800e-003**	**0.1481**	**0.0393**	**1.0900e-003**	**0.0404**		**179.7993**	**179.7993**	**6.0500e-003**		**179.9506**

3.27 WTP - Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	**1.6074**	**1.7373**	**2.4148**	**3.9600e-003**		**0.0944**	**0.0944**		**0.0944**	**0.0944**	**0.0000**	**375.2641**	**375.2641**	**0.0225**		**375.8253**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0495**	**0.1690**	**0.4540**	**1.7600e-003**	**0.1469**	**1.1800e-003**	**0.1481**	**0.0393**	**1.0900e-003**	**0.0404**		**179.7993**	**179.7993**	**6.0500e-003**		**179.9506**

3.28 WTP - Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3732	3.8248	4.7443	7.3300e-003		0.1992	0.1992		0.1833	0.1833		709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4518**	**3.8248**	**4.7443**	**7.3300e-003**		**0.1992**	**0.1992**		**0.1833**	**0.1833**		**709.3618**	**709.3618**	**0.2294**		**715.0973**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003		108.9944	108.9944	6.2500e-003		109.1507
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0596**	**0.4013**	**0.5420**	**2.3400e-003**	**0.1597**	**1.7400e-003**	**0.1615**	**0.0429**	**1.6300e-003**	**0.0446**		**240.8398**	**240.8398**	**9.8900e-003**		**241.0872**

3.28 WTP - Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3732	3.8248	4.7443	7.3300e-003		0.1992	0.1992		0.1833	0.1833	0.0000	709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4518**	**3.8248**	**4.7443**	**7.3300e-003**		**0.1992**	**0.1992**		**0.1833**	**0.1833**	**0.0000**	**709.3618**	**709.3618**	**0.2294**		**715.0973**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003		108.9944	108.9944	6.2500e-003		109.1507
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0596**	**0.4013**	**0.5420**	**2.3400e-003**	**0.1597**	**1.7400e-003**	**0.1615**	**0.0429**	**1.6300e-003**	**0.0446**		**240.8398**	**240.8398**	**9.8900e-003**		**241.0872**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1237	0.9584	1.7831	2.9400e-003		0.0451	0.0451		0.0420	0.0420		275.3110	275.3110	0.0835		277.3983
Total	**0.1237**	**0.9584**	**1.7831**	**2.9400e-003**	**0.0213**	**0.0451**	**0.0663**	**2.4300e-003**	**0.0420**	**0.0445**		**275.3110**	**275.3110**	**0.0835**		**277.3983**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0187	0.5918	0.2046	2.6500e-003	0.0630	1.0700e-003	0.0640	0.0173	1.0300e-003	0.0183		288.5633	288.5633	0.0190		289.0373
Vendor	0.0127	0.4203	0.1301	1.4800e-003	0.0384	4.9000e-004	0.0389	0.0111	4.6000e-004	0.0115		158.3445	158.3445	8.3100e-003		158.5523
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0767**	**1.0410**	**0.7454**	**5.4000e-003**	**0.2355**	**2.5800e-003**	**0.2381**	**0.0639**	**2.4300e-003**	**0.0663**		**573.9256**	**573.9256**	**0.0306**		**574.6895**

3.29 Well - SM-11 Grading - Well Pad - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	1.1000e-003	0.0000	1.1000e-003			0.0000			0.0000
Off-Road	0.1237	0.9584	1.7831	2.9400e-003		0.0451	0.0451		0.0420	0.0420	0.0000	275.3110	275.3110	0.0835		277.3983
Total	**0.1237**	**0.9584**	**1.7831**	**2.9400e-003**	**9.5600e-003**	**0.0451**	**0.0546**	**1.1000e-003**	**0.0420**	**0.0431**	**0.0000**	**275.3110**	**275.3110**	**0.0835**		**277.3983**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0187	0.5918	0.2046	2.6500e-003	0.0630	1.0700e-003	0.0640	0.0173	1.0300e-003	0.0183		288.5633	288.5633	0.0190		289.0373
Vendor	0.0127	0.4203	0.1301	1.4800e-003	0.0384	4.9000e-004	0.0389	0.0111	4.6000e-004	0.0115		158.3445	158.3445	8.3100e-003		158.5523
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0767**	**1.0410**	**0.7454**	**5.4000e-003**	**0.2355**	**2.5800e-003**	**0.2381**	**0.0639**	**2.4300e-003**	**0.0663**		**573.9256**	**573.9256**	**0.0306**		**574.6895**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1212	1.0293	1.8830	3.7700e-003		0.0462	0.0462		0.0425	0.0425		364.4782	364.4782	0.1179		367.4252
Total	**0.1212**	**1.0293**	**1.8830**	**3.7700e-003**		**0.0462**	**0.0462**		**0.0425**	**0.0425**		**364.4782**	**364.4782**	**0.1179**		**367.4252**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1212	1.0293	1.8830	3.7700e-003		0.0462	0.0462		0.0425	0.0425	0.0000	364.4782	364.4782	0.1179		367.4252
Total	**0.1212**	**1.0293**	**1.8830**	**3.7700e-003**		**0.0462**	**0.0462**		**0.0425**	**0.0425**	**0.0000**	**364.4782**	**364.4782**	**0.1179**		**367.4252**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0943	0.7743	1.6289	2.5800e-003		0.0379	0.0379		0.0349	0.0349		250.0528	250.0528	0.0809		252.0746
Total	**0.0943**	**0.7743**	**1.6289**	**2.5800e-003**		**0.0379**	**0.0379**		**0.0349**	**0.0349**		**250.0528**	**250.0528**	**0.0809**		**252.0746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0943	0.7743	1.6289	2.5800e-003		0.0379	0.0379		0.0349	0.0349	0.0000	250.0528	250.0528	0.0809		252.0746
Total	**0.0943**	**0.7743**	**1.6289**	**2.5800e-003**		**0.0379**	**0.0379**		**0.0349**	**0.0349**	**0.0000**	**250.0528**	**250.0528**	**0.0809**		**252.0746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076
Unmitigated	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Industrial Park	2.00	0.00	0.00	10,400	10,400
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	2.00	0.00	0.00	10,400	10,400

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	20.00	20.00	20.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
NaturalGas Unmitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	520.685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.520685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Unmitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Unmitigated

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.50	1000sqft	0.24	10,500.00	0
Industrial Park	1.00	1000sqft	0.00	1,000.00	0
User Defined Industrial	0.74	User Defined Unit	0.74	32,400.00	0
User Defined Industrial	0.63	User Defined Unit	0.63	27,300.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	30,056.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.
Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-10 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-11 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-8 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-9 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - WTP - Architectural Coating: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 1: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 2: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 3: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 4: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 5: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 6: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 7: Applicant-provided data.

Off-road Equipment - WTP - Demolition: Applicant-provided data.

Off-road Equipment - WTP - Paving: Applicant-provided data.

Off-road Equipment - WTP - Site Preparation and Grading: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - Demolition: WTP - Demolition. 5,725 SF total.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of new buildings and asphalt surface striping.

Vehicle Trips - No net new worker operational trips anticipated. Minimal, infrequent net new truck deliveries anticipated (maximum 2 one-way trips per day).

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Road Dust - Operational mobile source emissions not estimated.

Woodstoves - No hearths.

Consumer Products - CalEEMod default values.

Area Coating - Operational architectural coating for 10,500 SF of building (conservative as some surfaces would not require coating).

Landscape Equipment - No increase in landscape maintenance activity from existing conditions.

Energy Use - CalEEMod default values for General Light Industry.

Water And Wastewater - CalEEMod default values for water use. 100% aerobic.

Solid Waste - CalEEMod default values.

Construction Off-road Equipment Mitigation - Water Exposed Area, Frequency: 2 times per day.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No area mitigation.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water mitigation.

Waste Mitigation - Percent Reduction in Waste Disposed: 50%. Waste diversion consistent with Assembly Bill 939.

Operational Off-Road Equipment - No operational offroad equipment.

Fleet Mix - Industrial Park: 50% MHDT/50% HHDT.

Stationary Sources - User Defined - No operational stationary sources.

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Unmitigated - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	15,750.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
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tblAreaCoating	Area_Nonresidential_Interior	106800	15750
tblAreaCoating	Area_Parking	1803	1944
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tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripNumber	509.00	510.00
tblTripsAndVMT	HaulingTripNumber	26.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	84.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00

tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	10.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	16.00
tblTripsAndVMT	WorkerTripNumber	43.00	10.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	24.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	9.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblVehicleTrips	CC_TL	8.40	20.00
tblVehicleTrips	CNW_TL	6.90	20.00
tblVehicleTrips	CW_TL	16.60	20.00

tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	6.83	2.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	8.5300e-003	0.0929	0.0924	2.5000e-004	6.2800e-003	2.7400e-003	9.0300e-003	1.6400e-003	2.5400e-003	4.1800e-003	0.0000	23.1355	23.1355	4.2100e-003	0.0000	23.2408
2021	0.0578	0.5066	0.5443	1.2100e-003	0.0212	0.0196	0.0408	5.6600e-003	0.0181	0.0237	0.0000	110.1310	110.1310	0.0234	0.0000	110.7168
2022	0.2221	1.7766	2.0143	4.1600e-003	0.1244	0.0752	0.1996	0.0499	0.0707	0.1206	0.0000	367.0084	367.0084	0.0786	0.0000	368.9722
2023	0.0180	0.0483	0.0785	1.8000e-004	4.4900e-003	1.9300e-003	6.4200e-003	1.1900e-003	1.8400e-003	3.0300e-003	0.0000	16.2954	16.2954	2.7100e-003	0.0000	16.3632
Maximum	**0.2221**	**1.7766**	**2.0143**	**4.1600e-003**	**0.1244**	**0.0752**	**0.1996**	**0.0499**	**0.0707**	**0.1206**	**0.0000**	**367.0084**	**367.0084**	**0.0786**	**0.0000**	**368.9722**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	8.5300e-003	0.0929	0.0924	2.5000e-004	6.0700e-003	2.7400e-003	8.8100e-003	1.6200e-003	2.5400e-003	4.1500e-003	0.0000	23.1355	23.1355	4.2100e-003	0.0000	23.2408
2021	0.0578	0.5066	0.5443	1.2100e-003	0.0208	0.0196	0.0405	5.6100e-003	0.0181	0.0237	0.0000	110.1309	110.1309	0.0234	0.0000	110.7167
2022	0.2221	1.7766	2.0143	4.1600e-003	0.0896	0.0752	0.1647	0.0314	0.0707	0.1022	0.0000	367.0080	367.0080	0.0786	0.0000	368.9719
2023	0.0180	0.0483	0.0785	1.8000e-004	4.4300e-003	1.9300e-003	6.3600e-003	1.1900e-003	1.8400e-003	3.0300e-003	0.0000	16.2954	16.2954	2.7100e-003	0.0000	16.3632
Maximum	**0.2221**	**1.7766**	**2.0143**	**4.1600e-003**	**0.0896**	**0.0752**	**0.1647**	**0.0314**	**0.0707**	**0.1022**	**0.0000**	**367.0080**	**367.0080**	**0.0786**	**0.0000**	**368.9719**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**22.70**	**0.00**	**13.88**	**31.74**	**0.00**	**12.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	**11-13-2020**	**2-12-2021**	0.1617	0.1617
5	**2-13-2021**	**5-12-2021**	0.3794	0.3794
6	**5-13-2021**	**8-12-2021**	0.1188	0.1188
8	**11-13-2021**	**2-12-2022**	0.2417	0.2417
9	**2-13-2022**	**5-12-2022**	0.7415	0.7415
10	**5-13-2022**	**8-12-2022**	0.6255	0.6255
11	**8-13-2022**	**11-12-2022**	0.2784	0.2784
12	**11-13-2022**	**2-12-2023**	0.1290	0.1290

14	**5-13-2023**	**8-12-2023**	0.0249	0.0249
15	**8-13-2023**	**9-30-2023**	0.0108	0.0108
		Highest	0.7415	0.7415

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	69.9863	69.9863	1.7300e-003	5.0000e-004	70.1794
Mobile	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Waste						0.0000	0.0000		0.0000	0.0000	2.6429	0.0000	2.6429	0.1562	0.0000	6.5478
Water						0.0000	0.0000		0.0000	0.0000	0.8591	16.2341	17.0932	3.3700e-003	1.9500e-003	17.7598
Total	**0.2666**	**0.0383**	**0.0187**	**2.2000e-004**	**4.7300e-003**	**7.7000e-004**	**5.4900e-003**	**1.3600e-003**	**7.6000e-004**	**2.1300e-003**	**3.5020**	**101.4834**	**104.9854**	**0.1620**	**2.4500e-003**	**109.7665**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	69.9863	69.9863	1.7300e-003	5.0000e-004	70.1794
Mobile	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Waste						0.0000	0.0000		0.0000	0.0000	1.3215	0.0000	1.3215	0.0781	0.0000	3.2739
Water						0.0000	0.0000		0.0000	0.0000	0.8591	16.2341	17.0932	3.3700e-003	1.9500e-003	17.7598
Total	**0.2666**	**0.0383**	**0.0187**	**2.2000e-004**	**4.7300e-003**	**7.7000e-004**	**5.4900e-003**	**1.3600e-003**	**7.6000e-004**	**2.1300e-003**	**2.1805**	**101.4834**	**103.6639**	**0.0839**	**2.4500e-003**	**106.4926**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**37.73**	**0.00**	**1.26**	**48.22**	**0.00**	**2.98**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Well - SM-10 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
2	Well - SM-8 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
3	Well - SM-9 Grading Well Pad	Grading	11/27/2020	12/10/2020	5	10	

4	Well - SM-10 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25
5	Well - SM-8 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25
6	Well - SM-9 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25
7	Well - SM-10 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15
8	Well - SM-8 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15
9	Well - SM-9 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15
10	Pipeline - Site Preparation	Site Preparation	2/28/2021	3/5/2021	5	5
11	Pipeline - Grading - Slurry Backfill	Grading	3/6/2021	5/28/2021	5	60
12	Pipeline - Grading - Installation	Grading	3/6/2021	5/28/2021	5	60
13	Pipeline - Continual Paving	Paving	3/6/2021	5/28/2021	5	60
14	Pipeline - Continual Pavement Striping	Architectural Coating	3/6/2021	5/28/2021	5	60
15	Pipeline - Final Paving	Paving	5/29/2021	6/11/2021	5	10
16	Pipeline - Final Pavement Striping	Architectural Coating	6/14/2021	6/14/2021	5	1
17	WTP - Demolition	Demolition	1/21/2022	2/24/2022	5	25
18	WTP - Site Preparation and Grading	Grading	2/1/2022	2/28/2022	5	20
19	WTP - Building Construction 3	Building Construction	3/1/2022	9/1/2022	5	133
20	WTP - Building Construction 4	Building Construction	3/1/2022	9/15/2022	5	143
21	WTP - Building Construction 1	Building Construction	3/1/2022	6/1/2022	5	67
22	WTP - Building Construction 2	Building Construction	3/1/2022	7/1/2022	5	89
23	WTP - Building Construction 5	Building Construction	4/1/2022	5/13/2022	5	31
24	WTP - Building Construction 6	Building Construction	5/1/2022	9/1/2022	5	89
25	WTP - Building Construction 7	Building Construction	8/1/2022	11/1/2022	5	67
26	WTP - Architectural Coating	Architectural Coating	10/15/2022	1/24/2023	5	72
27	WTP - Paving	Paving	11/1/2022	12/1/2022	5	23
28	Well - SM-11 Grading - Well Pad	Grading	7/1/2023	7/14/2023	5	10

29	Well - SM-11 Building Construction - Well Equipping	Building Construction	7/15/2023	8/18/2023	5	25	
30	Well - SM-11 Building Construction - Artistic Fencing	Building Construction	8/19/2023	9/8/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,944 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Well - SM-10 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-10 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-10 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-10 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-10 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-8 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-8 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-8 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-8 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-8 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-9 Grading Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-9 Grading Well Pad	Excavators	1	4.00	158	0.38
Well - SM-9 Grading Well Pad	Graders	0	8.00	187	0.41
Well - SM-9 Grading Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-9 Grading Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Well - SM-10 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-10 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-10 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-8 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-8 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-9 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40

Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-10 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Artistic Fencing	Excavators	0	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48
Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36
Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48
WTP - Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
WTP - Demolition	Rubber Tired Dozers	1	8.00	247	0.40

WTP - Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
WTP - Site Preparation and Grading	Graders	1	8.00	187	0.41
WTP - Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Site Preparation and Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WTP - Building Construction 3	Cranes	0	8.00	231	0.29
WTP - Building Construction 3	Forklifts	0	7.00	89	0.20
WTP - Building Construction 3	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 3	Welders	0	8.00	46	0.45
WTP - Building Construction 4	Cranes	1	2.00	231	0.29
WTP - Building Construction 4	Forklifts	0	7.00	89	0.20
WTP - Building Construction 4	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 4	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 4	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 4	Welders	0	8.00	46	0.45
WTP - Building Construction 1	Cranes	1	2.00	231	0.29
WTP - Building Construction 1	Forklifts	1	4.00	89	0.20
WTP - Building Construction 1	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 1	Welders	0	8.00	46	0.45
WTP - Building Construction 2	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 2	Cranes	1	2.00	231	0.29
WTP - Building Construction 2	Forklifts	0	7.00	89	0.20
WTP - Building Construction 2	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 2	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 2	Welders	0	8.00	46	0.45

WTP - Building Construction 5	Cranes	0	8.00	231	0.29
WTP - Building Construction 5	Forklifts	0	7.00	89	0.20
WTP - Building Construction 5	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 5	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 5	Welders	0	8.00	46	0.45
WTP - Building Construction 6	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 6	Bore/Drill Rigs	1	8.00	221	0.50
WTP - Building Construction 6	Cranes	1	2.00	231	0.29
WTP - Building Construction 6	Excavators	1	4.00	158	0.38
WTP - Building Construction 6	Forklifts	0	7.00	89	0.20
WTP - Building Construction 6	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 6	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 6	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 6	Welders	0	8.00	46	0.45
WTP - Building Construction 7	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 7	Cranes	1	2.00	231	0.29
WTP - Building Construction 7	Forklifts	0	7.00	89	0.20
WTP - Building Construction 7	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 7	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 7	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 7	Welders	0	8.00	46	0.45
WTP - Architectural Coating	Air Compressors	1	8.00	78	0.48
WTP - Paving	Cement and Mortar Mixers	0	8.00	9	0.56
WTP - Paving	Pavers	1	8.00	130	0.42
WTP - Paving	Paving Equipment	0	8.00	132	0.36
WTP - Paving	Rollers	1	8.00	80	0.38

WTP - Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Well - SM-11 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-11 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-11 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-11 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-11 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-11 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-11 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Well - SM-10 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Well - SM-8 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Grading Well Pad	2	12.00	6.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	510.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Demolition	5	14.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Site Preparation and Gradi	4	12.00	0.00	84.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 3	2	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 4	2	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 1	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 2	3	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 5	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 6	5	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 7	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Architectural Coating	1	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Paving	2	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Well - SM-11 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**1.1000e-004**	**3.3000e-004**	**4.4000e-004**	**1.0000e-005**	**3.0000e-004**	**3.1000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**5.0000e-005**	**3.3000e-004**	**3.8000e-004**	**1.0000e-005**	**3.0000e-004**	**3.1000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.2 Well - SM-10 Grading - Well Pad - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**1.1000e-004**	**3.3000e-004**	**4.4000e-004**	**1.0000e-005**	**3.0000e-004**	**3.1000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**5.0000e-005**	**3.3000e-004**	**3.8000e-004**	**1.0000e-005**	**3.0000e-004**	**3.1000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.3 Well - SM-8 Grading - Well Pad - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**1.7000e-004**	**3.3000e-004**	**5.0000e-004**	**2.0000e-005**	**3.0000e-004**	**3.2000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	8.3200e-003	1.8300e-003	2.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	2.1582	2.1582	1.5000e-004	0.0000	2.1620
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**6.4000e-004**	**0.0118**	**5.1800e-003**	**4.0000e-005**	**1.3300e-003**	**6.0000e-005**	**1.3700e-003**	**3.5000e-004**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**3.5163**	**3.5163**	**2.2000e-004**	**0.0000**	**3.5217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-005	0.0000	8.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**8.0000e-005**	**3.3000e-004**	**4.1000e-004**	**1.0000e-005**	**3.0000e-004**	**3.1000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.4 Well - SM-9 Grading Well Pad - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	8.3200e-003	1.8300e-003	2.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	2.1582	2.1582	1.5000e-004	0.0000	2.1620
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**6.4000e-004**	**0.0118**	**5.1800e-003**	**4.0000e-005**	**1.3300e-003**	**6.0000e-005**	**1.3700e-003**	**3.5000e-004**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**3.5163**	**3.5163**	**2.2000e-004**	**0.0000**	**3.5217**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	6.4900e-003	7.2600e-003	1.0000e-005		3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004	0.0000	1.0321	1.0321	3.3000e-004	0.0000	1.0404
Total	**6.2000e-004**	**6.4900e-003**	**7.2600e-003**	**1.0000e-005**	**0.0000**	**3.1000e-004**	**3.1000e-004**	**0.0000**	**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.0321**	**1.0321**	**3.3000e-004**	**0.0000**	**1.0404**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.1000e-004	8.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2472	0.2472	1.0000e-005	0.0000	0.2474
Total	**1.4000e-004**	**1.0700e-003**	**1.2200e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.4937**	**0.4937**	**3.0000e-005**	**0.0000**	**0.4943**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	6.4900e-003	7.2600e-003	1.0000e-005		3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004	0.0000	1.0321	1.0321	3.3000e-004	0.0000	1.0404
Total	**6.2000e-004**	**6.4900e-003**	**7.2600e-003**	**1.0000e-005**	**0.0000**	**3.1000e-004**	**3.1000e-004**	**0.0000**	**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.0321**	**1.0321**	**3.3000e-004**	**0.0000**	**1.0404**

3.11 Pipeline - Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.1000e-004	8.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2472	0.2472	1.0000e-005	0.0000	0.2474
Total	**1.4000e-004**	**1.0700e-003**	**1.2200e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.4937**	**0.4937**	**3.0000e-005**	**0.0000**	**0.4943**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8000e-004	5.5200e-003	4.6300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.6874	0.6874	7.0000e-005	0.0000	0.6892
Total	**8.8000e-004**	**5.5200e-003**	**4.6300e-003**	**1.0000e-005**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**0.6874**	**0.6874**	**7.0000e-005**	**0.0000**	**0.6892**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8000e-004	5.5200e-003	4.6300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.6874	0.6874	7.0000e-005	0.0000	0.6892
Total	**8.8000e-004**	**5.5200e-003**	**4.6300e-003**	**1.0000e-005**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**0.6874**	**0.6874**	**7.0000e-005**	**0.0000**	**0.6892**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2000e-004	0.0000	6.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1581	0.2245	3.5000e-004		8.0300e-003	8.0300e-003		7.3900e-003	7.3900e-003	0.0000	30.6836	30.6836	9.9200e-003	0.0000	30.9317
Total	**0.0166**	**0.1581**	**0.2245**	**3.5000e-004**	**6.2000e-004**	**8.0300e-003**	**8.6500e-003**	**8.0000e-005**	**7.3900e-003**	**7.4700e-003**	**0.0000**	**30.6836**	**30.6836**	**9.9200e-003**	**0.0000**	**30.9317**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.0706	0.0165	2.0000e-004	4.3800e-003	2.1000e-004	4.5900e-003	1.2000e-003	2.0000e-004	1.4100e-003	0.0000	19.4386	19.4386	1.3500e-003	0.0000	19.4723
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	**4.0700e-003**	**0.0836**	**0.0333**	**2.7000e-004**	**9.0800e-003**	**2.6000e-004**	**9.3500e-003**	**2.4700e-003**	**2.5000e-004**	**2.7300e-003**	**0.0000**	**25.9566**	**25.9566**	**1.6300e-003**	**0.0000**	**25.9975**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8000e-004	0.0000	2.8000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1581	0.2245	3.5000e-004		8.0300e-003	8.0300e-003		7.3900e-003	7.3900e-003	0.0000	30.6835	30.6835	9.9200e-003	0.0000	30.9316
Total	**0.0166**	**0.1581**	**0.2245**	**3.5000e-004**	**2.8000e-004**	**8.0300e-003**	**8.3100e-003**	**3.0000e-005**	**7.3900e-003**	**7.4200e-003**	**0.0000**	**30.6835**	**30.6835**	**9.9200e-003**	**0.0000**	**30.9316**

3.13 Pipeline - Grading - Installation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.0706	0.0165	2.0000e-004	4.3800e-003	2.1000e-004	4.5900e-003	1.2000e-003	2.0000e-004	1.4100e-003	0.0000	19.4386	19.4386	1.3500e-003	0.0000	19.4723
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	**4.0700e-003**	**0.0836**	**0.0333**	**2.7000e-004**	**9.0800e-003**	**2.6000e-004**	**9.3500e-003**	**2.4700e-003**	**2.5000e-004**	**2.7300e-003**	**0.0000**	**25.9566**	**25.9566**	**1.6300e-003**	**0.0000**	**25.9975**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.1356	0.1436	2.2000e-004		7.2900e-003	7.2900e-003		6.7100e-003	6.7100e-003	0.0000	19.2999	19.2999	6.2400e-003	0.0000	19.4559
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.1356**	**0.1436**	**2.2000e-004**		**7.2900e-003**	**7.2900e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.2999**	**19.2999**	**6.2400e-003**	**0.0000**	**19.4559**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**1.1400e-003**	**0.0124**	**0.0100**	**5.0000e-005**	**2.7300e-003**	**4.0000e-005**	**2.7700e-003**	**7.4000e-004**	**3.0000e-005**	**7.8000e-004**	**0.0000**	**4.7380**	**4.7380**	**2.3000e-004**	**0.0000**	**4.7439**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.1356	0.1436	2.2000e-004		7.2900e-003	7.2900e-003		6.7100e-003	6.7100e-003	0.0000	19.2999	19.2999	6.2400e-003	0.0000	19.4559
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.1356**	**0.1436**	**2.2000e-004**		**7.2900e-003**	**7.2900e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.2999**	**19.2999**	**6.2400e-003**	**0.0000**	**19.4559**

3.14 Pipeline - Continual Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**1.1400e-003**	**0.0124**	**0.0100**	**5.0000e-005**	**2.7300e-003**	**4.0000e-005**	**2.7700e-003**	**7.4000e-004**	**3.0000e-005**	**7.8000e-004**	**0.0000**	**4.7380**	**4.7380**	**2.3000e-004**	**0.0000**	**4.7439**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.15 Pipeline - Continual Pavement Striping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1800e-003	0.0226	0.0239	4.0000e-005		1.2200e-003	1.2200e-003		1.1200e-003	1.1200e-003	0.0000	3.2167	3.2167	1.0400e-003	0.0000	3.2427
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.0800e-003**	**0.0226**	**0.0239**	**4.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.1200e-003**	**1.1200e-003**	**0.0000**	**3.2167**	**3.2167**	**1.0400e-003**	**0.0000**	**3.2427**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.9700e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4930	0.4930	3.0000e-005	0.0000	0.4938
Worker	1.3000e-004	1.0000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2967	0.2967	1.0000e-005	0.0000	0.2969
Total	**1.9000e-004**	**2.0700e-003**	**1.6700e-003**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7897**	**0.7897**	**4.0000e-005**	**0.0000**	**0.7906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1800e-003	0.0226	0.0239	4.0000e-005		1.2200e-003	1.2200e-003		1.1200e-003	1.1200e-003	0.0000	3.2167	3.2167	1.0400e-003	0.0000	3.2427
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.0800e-003**	**0.0226**	**0.0239**	**4.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.1200e-003**	**1.1200e-003**	**0.0000**	**3.2167**	**3.2167**	**1.0400e-003**	**0.0000**	**3.2427**

3.16 Pipeline - Final Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.9700e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4930	0.4930	3.0000e-005	0.0000	0.4938
Worker	1.3000e-004	1.0000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2967	0.2967	1.0000e-005	0.0000	0.2969
Total	**1.9000e-004**	**2.0700e-003**	**1.6700e-003**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7897**	**0.7897**	**4.0000e-005**	**0.0000**	**0.7906**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0493	0.0493	0.0000	0.0000	0.0494
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0198	0.0198	0.0000	0.0000	0.0198
Total	**2.0000e-005**	**2.1000e-004**	**1.3000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0691**	**0.0691**	**0.0000**	**0.0000**	**0.0692**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Pipeline - Final Pavement Striping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0493	0.0493	0.0000	0.0000	0.0494
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0198	0.0198	0.0000	0.0000	0.0198
Total	**2.0000e-005**	**2.1000e-004**	**1.3000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0691**	**0.0691**	**0.0000**	**0.0000**	**0.0692**

3.18 WTP - Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8200e-003	0.0000	2.8200e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5150
Total	**0.0211**	**0.2078**	**0.1745**	**3.0000e-004**	**2.8200e-003**	**0.0105**	**0.0133**	**4.3000e-004**	**9.7900e-003**	**0.0102**	**0.0000**	**26.3471**	**26.3471**	**6.7100e-003**	**0.0000**	**26.5150**

3.18 WTP - Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	8.9900e-003	2.2300e-003	3.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.6363	2.6363	1.8000e-004	0.0000	2.6409
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.3000e-004	6.1000e-003	2.0000e-005	1.9200e-003	2.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6698	1.6698	5.0000e-005	0.0000	1.6709
Total	**9.9000e-004**	**9.5200e-003**	**8.3300e-003**	**5.0000e-005**	**2.5200e-003**	**5.0000e-005**	**2.5600e-003**	**6.8000e-004**	**3.0000e-005**	**7.1000e-004**	**0.0000**	**4.3061**	**4.3061**	**2.3000e-004**	**0.0000**	**4.3118**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2700e-003	0.0000	1.2700e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5149
Total	**0.0211**	**0.2078**	**0.1745**	**3.0000e-004**	**1.2700e-003**	**0.0105**	**0.0117**	**1.9000e-004**	**9.7900e-003**	**9.9800e-003**	**0.0000**	**26.3471**	**26.3471**	**6.7100e-003**	**0.0000**	**26.5149**

3.18 WTP - Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	8.9900e-003	2.2300e-003	3.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.6363	2.6363	1.8000e-004	0.0000	2.6409
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.3000e-004	6.1000e-003	2.0000e-005	1.9200e-003	2.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6698	1.6698	5.0000e-005	0.0000	1.6709
Total	**9.9000e-004**	**9.5200e-003**	**8.3300e-003**	**5.0000e-005**	**2.5200e-003**	**5.0000e-005**	**2.5600e-003**	**6.8000e-004**	**3.0000e-005**	**7.1000e-004**	**0.0000**	**4.3061**	**4.3061**	**2.3000e-004**	**0.0000**	**4.3118**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0606	0.0000	0.0606	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004		7.4200e-003	7.4200e-003		6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	**0.0154**	**0.1698**	**0.0922**	**2.1000e-004**	**0.0606**	**7.4200e-003**	**0.0680**	**0.0331**	**6.8300e-003**	**0.0400**	**0.0000**	**18.1027**	**18.1027**	**5.8500e-003**	**0.0000**	**18.2491**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	0.0108	2.6800e-003	3.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.0000e-004	3.0000e-005	2.3000e-004	0.0000	3.1636	3.1636	2.2000e-004	0.0000	3.1690
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.6000e-004	4.1800e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1450	1.1450	3.0000e-005	0.0000	1.1458
Total	**8.2000e-004**	**0.0112**	**6.8600e-003**	**4.0000e-005**	**2.0300e-003**	**4.0000e-005**	**2.0800e-003**	**5.5000e-004**	**4.0000e-005**	**5.9000e-004**	**0.0000**	**4.3086**	**4.3086**	**2.5000e-004**	**0.0000**	**4.3148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0273	0.0000	0.0273	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004		7.4200e-003	7.4200e-003		6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	**0.0154**	**0.1698**	**0.0922**	**2.1000e-004**	**0.0273**	**7.4200e-003**	**0.0347**	**0.0149**	**6.8300e-003**	**0.0217**	**0.0000**	**18.1027**	**18.1027**	**5.8500e-003**	**0.0000**	**18.2491**

3.19 WTP - Site Preparation and Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	0.0108	2.6800e-003	3.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.0000e-004	3.0000e-005	2.3000e-004	0.0000	3.1636	3.1636	2.2000e-004	0.0000	3.1690
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.6000e-004	4.1800e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1450	1.1450	3.0000e-005	0.0000	1.1458
Total	**8.2000e-004**	**0.0112**	**6.8600e-003**	**4.0000e-005**	**2.0300e-003**	**4.0000e-005**	**2.0800e-003**	**5.5000e-004**	**4.0000e-005**	**5.9000e-004**	**0.0000**	**4.3086**	**4.3086**	**2.5000e-004**	**0.0000**	**4.3148**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0329	0.3062	0.3933	6.4000e-004		0.0158	0.0158		0.0153	0.0153	0.0000	55.7594	55.7594	7.6600e-003	0.0000	55.9510
Total	**0.0329**	**0.3062**	**0.3933**	**6.4000e-004**		**0.0158**	**0.0158**		**0.0153**	**0.0153**	**0.0000**	**55.7594**	**55.7594**	**7.6600e-003**	**0.0000**	**55.9510**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0125	3.3700e-003	3.0000e-005	8.4000e-004	2.0000e-005	8.6000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.2496	3.2496	1.9000e-004	0.0000	3.2545
Worker	3.2200e-003	2.4100e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8100e-003	2.3200e-003	6.0000e-005	2.3900e-003	0.0000	7.6142	7.6142	2.1000e-004	0.0000	7.6194
Total	**3.6100e-003**	**0.0149**	**0.0312**	**1.1000e-004**	**9.5800e-003**	**9.0000e-005**	**9.6700e-003**	**2.5600e-003**	**8.0000e-005**	**2.6500e-003**	**0.0000**	**10.8638**	**10.8638**	**4.0000e-004**	**0.0000**	**10.8739**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0329	0.3062	0.3933	6.4000e-004		0.0158	0.0158		0.0153	0.0153	0.0000	55.7593	55.7593	7.6600e-003	0.0000	55.9509
Total	**0.0329**	**0.3062**	**0.3933**	**6.4000e-004**		**0.0158**	**0.0158**		**0.0153**	**0.0153**	**0.0000**	**55.7593**	**55.7593**	**7.6600e-003**	**0.0000**	**55.9509**

3.20 WTP - Building Construction 3 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0125	3.3700e-003	3.0000e-005	8.4000e-004	2.0000e-005	8.6000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.2496	3.2496	1.9000e-004	0.0000	3.2545
Worker	3.2200e-003	2.4100e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8100e-003	2.3200e-003	6.0000e-005	2.3900e-003	0.0000	7.6142	7.6142	2.1000e-004	0.0000	7.6194
Total	**3.6100e-003**	**0.0149**	**0.0312**	**1.1000e-004**	**9.5800e-003**	**9.0000e-005**	**9.6700e-003**	**2.5600e-003**	**8.0000e-005**	**2.6500e-003**	**0.0000**	**10.8638**	**10.8638**	**4.0000e-004**	**0.0000**	**10.8739**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0147	0.1806	0.1975	3.5000e-004		6.8000e-003	6.8000e-003		6.2500e-003	6.2500e-003	0.0000	30.7105	30.7105	9.9300e-003	0.0000	30.9588
Total	**0.0147**	**0.1806**	**0.1975**	**3.5000e-004**		**6.8000e-003**	**6.8000e-003**		**6.2500e-003**	**6.2500e-003**	**0.0000**	**30.7105**	**30.7105**	**9.9300e-003**	**0.0000**	**30.9588**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0134	3.6200e-003	4.0000e-005	9.0000e-004	3.0000e-005	9.3000e-004	2.6000e-004	2.0000e-005	2.8000e-004	0.0000	3.4939	3.4939	2.1000e-004	0.0000	3.4992
Worker	4.6200e-003	3.4600e-003	0.0399	1.2000e-004	0.0125	1.0000e-004	0.0126	3.3300e-003	9.0000e-005	3.4200e-003	0.0000	10.9155	10.9155	3.0000e-004	0.0000	10.9231
Total	**5.0400e-003**	**0.0169**	**0.0435**	**1.6000e-004**	**0.0134**	**1.3000e-004**	**0.0136**	**3.5900e-003**	**1.1000e-004**	**3.7000e-003**	**0.0000**	**14.4095**	**14.4095**	**5.1000e-004**	**0.0000**	**14.4222**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0147	0.1806	0.1975	3.5000e-004		6.8000e-003	6.8000e-003		6.2500e-003	6.2500e-003	0.0000	30.7105	30.7105	9.9300e-003	0.0000	30.9588
Total	**0.0147**	**0.1806**	**0.1975**	**3.5000e-004**		**6.8000e-003**	**6.8000e-003**		**6.2500e-003**	**6.2500e-003**	**0.0000**	**30.7105**	**30.7105**	**9.9300e-003**	**0.0000**	**30.9588**

3.21 WTP - Building Construction 4 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0134	3.6200e-003	4.0000e-005	9.0000e-004	3.0000e-005	9.3000e-004	2.6000e-004	2.0000e-005	2.8000e-004	0.0000	3.4939	3.4939	2.1000e-004	0.0000	3.4992
Worker	4.6200e-003	3.4600e-003	0.0399	1.2000e-004	0.0125	1.0000e-004	0.0126	3.3300e-003	9.0000e-005	3.4200e-003	0.0000	10.9155	10.9155	3.0000e-004	0.0000	10.9231
Total	**5.0400e-003**	**0.0169**	**0.0435**	**1.6000e-004**	**0.0134**	**1.3000e-004**	**0.0136**	**3.5900e-003**	**1.1000e-004**	**3.7000e-003**	**0.0000**	**14.4095**	**14.4095**	**5.1000e-004**	**0.0000**	**14.4222**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0216	0.2069	0.2333	4.0000e-004		0.0106	0.0106		0.0101	0.0101	0.0000	34.5845	34.5845	5.9600e-003	0.0000	34.7335
Total	**0.0216**	**0.2069**	**0.2333**	**4.0000e-004**		**0.0106**	**0.0106**		**0.0101**	**0.0101**	**0.0000**	**34.5845**	**34.5845**	**5.9600e-003**	**0.0000**	**34.7335**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.3500e-003	1.0100e-003	0.0117	4.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.1964	3.1964	9.0000e-005	0.0000	3.1986
Total	**1.5500e-003**	**7.2900e-003**	**0.0134**	**6.0000e-005**	**4.0900e-003**	**4.0000e-005**	**4.1300e-003**	**1.1000e-003**	**4.0000e-005**	**1.1300e-003**	**0.0000**	**4.8334**	**4.8334**	**1.9000e-004**	**0.0000**	**4.8381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0216	0.2069	0.2333	4.0000e-004		0.0106	0.0106		0.0101	0.0101	0.0000	34.5845	34.5845	5.9600e-003	0.0000	34.7335
Total	**0.0216**	**0.2069**	**0.2333**	**4.0000e-004**		**0.0106**	**0.0106**		**0.0101**	**0.0101**	**0.0000**	**34.5845**	**34.5845**	**5.9600e-003**	**0.0000**	**34.7335**

3.22 WTP - Building Construction 1 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.3500e-003	1.0100e-003	0.0117	4.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.1964	3.1964	9.0000e-005	0.0000	3.1986
Total	**1.5500e-003**	**7.2900e-003**	**0.0134**	**6.0000e-005**	**4.0900e-003**	**4.0000e-005**	**4.1300e-003**	**1.1000e-003**	**4.0000e-005**	**1.1300e-003**	**0.0000**	**4.8334**	**4.8334**	**1.9000e-004**	**0.0000**	**4.8381**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1249	0.1472	2.6000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	22.3960	22.3960	7.2400e-003	0.0000	22.5771
Total	**9.9300e-003**	**0.1249**	**0.1472**	**2.6000e-004**		**4.4600e-003**	**4.4600e-003**		**4.1000e-003**	**4.1000e-003**	**0.0000**	**22.3960**	**22.3960**	**7.2400e-003**	**0.0000**	**22.5771**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	2.1500e-003	1.6200e-003	0.0186	6.0000e-005	5.8500e-003	5.0000e-005	5.9000e-003	1.5500e-003	4.0000e-005	1.6000e-003	0.0000	5.0952	5.0952	1.4000e-004	0.0000	5.0987
Total	**2.4100e-003**	**9.9600e-003**	**0.0209**	**8.0000e-005**	**6.4100e-003**	**7.0000e-005**	**6.4800e-003**	**1.7100e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**7.2697**	**7.2697**	**2.7000e-004**	**0.0000**	**7.2765**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1249	0.1472	2.6000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	22.3960	22.3960	7.2400e-003	0.0000	22.5771
Total	**9.9300e-003**	**0.1249**	**0.1472**	**2.6000e-004**		**4.4600e-003**	**4.4600e-003**		**4.1000e-003**	**4.1000e-003**	**0.0000**	**22.3960**	**22.3960**	**7.2400e-003**	**0.0000**	**22.5771**

3.23 WTP - Building Construction 2 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	2.1500e-003	1.6200e-003	0.0186	6.0000e-005	5.8500e-003	5.0000e-005	5.9000e-003	1.5500e-003	4.0000e-005	1.6000e-003	0.0000	5.0952	5.0952	1.4000e-004	0.0000	5.0987
Total	**2.4100e-003**	**9.9600e-003**	**0.0209**	**8.0000e-005**	**6.4100e-003**	**7.0000e-005**	**6.4800e-003**	**1.7100e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**7.2697**	**7.2697**	**2.7000e-004**	**0.0000**	**7.2765**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0229	0.0355	5.0000e-005		8.0000e-004	8.0000e-004		7.4000e-004	7.4000e-004	0.0000	4.6930	4.6930	1.5200e-003	0.0000	4.7310
Total	**1.7300e-003**	**0.0229**	**0.0355**	**5.0000e-005**		**8.0000e-004**	**8.0000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**4.6930**	**4.6930**	**1.5200e-003**	**0.0000**	**4.7310**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9100e-003	7.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7574	0.7574	5.0000e-005	0.0000	0.7586
Worker	5.0000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1832	1.1832	3.0000e-005	0.0000	1.1840
Total	**5.9000e-004**	**3.2900e-003**	**5.1000e-003**	**2.0000e-005**	**1.5600e-003**	**2.0000e-005**	**1.5700e-003**	**4.2000e-004**	**2.0000e-005**	**4.3000e-004**	**0.0000**	**1.9406**	**1.9406**	**8.0000e-005**	**0.0000**	**1.9425**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0229	0.0355	5.0000e-005		8.0000e-004	8.0000e-004		7.4000e-004	7.4000e-004	0.0000	4.6930	4.6930	1.5200e-003	0.0000	4.7310
Total	**1.7300e-003**	**0.0229**	**0.0355**	**5.0000e-005**		**8.0000e-004**	**8.0000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**4.6930**	**4.6930**	**1.5200e-003**	**0.0000**	**4.7310**

3.24 WTP - Building Construction 5 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9100e-003	7.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7574	0.7574	5.0000e-005	0.0000	0.7586
Worker	5.0000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1832	1.1832	3.0000e-005	0.0000	1.1840
Total	**5.9000e-004**	**3.2900e-003**	**5.1000e-003**	**2.0000e-005**	**1.5600e-003**	**2.0000e-005**	**1.5700e-003**	**4.2000e-004**	**2.0000e-005**	**4.3000e-004**	**0.0000**	**1.9406**	**1.9406**	**8.0000e-005**	**0.0000**	**1.9425**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0244	0.2653	0.3105	7.9000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	69.3689	69.3689	0.0224	0.0000	69.9298
Total	**0.0244**	**0.2653**	**0.3105**	**7.9000e-004**		**9.6100e-003**	**9.6100e-003**		**8.8400e-003**	**8.8400e-003**	**0.0000**	**69.3689**	**69.3689**	**0.0224**	**0.0000**	**69.9298**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	4.3100e-003	3.2300e-003	0.0372	1.1000e-004	0.0117	9.0000e-005	0.0118	3.1100e-003	9.0000e-005	3.1900e-003	0.0000	10.1904	10.1904	2.8000e-004	0.0000	10.1974
Total	**4.5700e-003**	**0.0116**	**0.0395**	**1.3000e-004**	**0.0123**	**1.1000e-004**	**0.0124**	**3.2700e-003**	**1.0000e-004**	**3.3700e-003**	**0.0000**	**12.3649**	**12.3649**	**4.1000e-004**	**0.0000**	**12.3752**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0244	0.2653	0.3105	7.9000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	69.3688	69.3688	0.0224	0.0000	69.9297
Total	**0.0244**	**0.2653**	**0.3105**	**7.9000e-004**		**9.6100e-003**	**9.6100e-003**		**8.8400e-003**	**8.8400e-003**	**0.0000**	**69.3688**	**69.3688**	**0.0224**	**0.0000**	**69.9297**

3.25 WTP - Building Construction 6 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	4.3100e-003	3.2300e-003	0.0372	1.1000e-004	0.0117	9.0000e-005	0.0118	3.1100e-003	9.0000e-005	3.1900e-003	0.0000	10.1904	10.1904	2.8000e-004	0.0000	10.1974
Total	**4.5700e-003**	**0.0116**	**0.0395**	**1.3000e-004**	**0.0123**	**1.1000e-004**	**0.0124**	**3.2700e-003**	**1.0000e-004**	**3.3700e-003**	**0.0000**	**12.3649**	**12.3649**	**4.1000e-004**	**0.0000**	**12.3752**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.4800e-003	0.0940	0.1108	1.9000e-004		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003	0.0000	16.8599	16.8599	5.4500e-003	0.0000	16.9962
Total	**7.4800e-003**	**0.0940**	**0.1108**	**1.9000e-004**		**3.3600e-003**	**3.3600e-003**		**3.0900e-003**	**3.0900e-003**	**0.0000**	**16.8599**	**16.8599**	**5.4500e-003**	**0.0000**	**16.9962**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.0800e-003	8.1000e-004	9.3400e-003	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5571	2.5571	7.0000e-005	0.0000	2.5589
Total	**1.2800e-003**	**7.0900e-003**	**0.0110**	**5.0000e-005**	**3.3600e-003**	**3.0000e-005**	**3.3900e-003**	**9.0000e-004**	**3.0000e-005**	**9.3000e-004**	**0.0000**	**4.1942**	**4.1942**	**1.7000e-004**	**0.0000**	**4.1984**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.4800e-003	0.0940	0.1108	1.9000e-004		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003	0.0000	16.8599	16.8599	5.4500e-003	0.0000	16.9962
Total	**7.4800e-003**	**0.0940**	**0.1108**	**1.9000e-004**		**3.3600e-003**	**3.3600e-003**		**3.0900e-003**	**3.0900e-003**	**0.0000**	**16.8599**	**16.8599**	**5.4500e-003**	**0.0000**	**16.9962**

3.26 WTP - Building Construction 7 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.0800e-003	8.1000e-004	9.3400e-003	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5571	2.5571	7.0000e-005	0.0000	2.5589
Total	**1.2800e-003**	**7.0900e-003**	**0.0110**	**5.0000e-005**	**3.3600e-003**	**3.0000e-005**	**3.3900e-003**	**9.0000e-004**	**3.0000e-005**	**9.3000e-004**	**0.0000**	**4.1942**	**4.1942**	**1.7000e-004**	**0.0000**	**4.1984**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-003	0.0516	0.0665	1.1000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	9.3619	9.3619	6.1000e-004	0.0000	9.3772
Total	**0.0447**	**0.0516**	**0.0665**	**1.1000e-004**		**3.0000e-003**	**3.0000e-003**		**3.0000e-003**	**3.0000e-003**	**0.0000**	**9.3619**	**9.3619**	**6.1000e-004**	**0.0000**	**9.3772**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.1600e-003	1.3900e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3438	1.3438	8.0000e-005	0.0000	1.3458
Worker	1.3300e-003	1.0000e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1487	3.1487	9.0000e-005	0.0000	3.1509
Total	**1.4900e-003**	**6.1600e-003**	**0.0129**	**4.0000e-005**	**3.9700e-003**	**4.0000e-005**	**4.0100e-003**	**1.0600e-003**	**4.0000e-005**	**1.1000e-003**	**0.0000**	**4.4925**	**4.4925**	**1.7000e-004**	**0.0000**	**4.4967**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-003	0.0516	0.0665	1.1000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	9.3619	9.3619	6.1000e-004	0.0000	9.3772
Total	**0.0447**	**0.0516**	**0.0665**	**1.1000e-004**		**3.0000e-003**	**3.0000e-003**		**3.0000e-003**	**3.0000e-003**	**0.0000**	**9.3619**	**9.3619**	**6.1000e-004**	**0.0000**	**9.3772**

3.27 WTP - Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.1600e-003	1.3900e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3438	1.3438	8.0000e-005	0.0000	1.3458
Worker	1.3300e-003	1.0000e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1487	3.1487	9.0000e-005	0.0000	3.1509
Total	**1.4900e-003**	**6.1600e-003**	**0.0129**	**4.0000e-005**	**3.9700e-003**	**4.0000e-005**	**4.0100e-003**	**1.0600e-003**	**4.0000e-005**	**1.1000e-003**	**0.0000**	**4.4925**	**4.4925**	**1.7000e-004**	**0.0000**	**4.4967**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1700e-003	0.0148	0.0205	3.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	2.8937	2.8937	1.7000e-004	0.0000	2.8980
Total	**0.0137**	**0.0148**	**0.0205**	**3.0000e-005**		**8.0000e-004**	**8.0000e-004**		**8.0000e-004**	**8.0000e-004**	**0.0000**	**2.8937**	**2.8937**	**1.7000e-004**	**0.0000**	**2.8980**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.2000e-003	3.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4024	0.4024	2.0000e-005	0.0000	0.4029
Worker	3.9000e-004	2.8000e-004	3.2700e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.9376	0.9376	2.0000e-005	0.0000	0.9382
Total	**4.3000e-004**	**1.4800e-003**	**3.6600e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.3400**	**1.3400**	**4.0000e-005**	**0.0000**	**1.3411**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1700e-003	0.0148	0.0205	3.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	2.8937	2.8937	1.7000e-004	0.0000	2.8980
Total	**0.0137**	**0.0148**	**0.0205**	**3.0000e-005**		**8.0000e-004**	**8.0000e-004**		**8.0000e-004**	**8.0000e-004**	**0.0000**	**2.8937**	**2.8937**	**1.7000e-004**	**0.0000**	**2.8980**

3.27 WTP - Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.2000e-003	3.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4024	0.4024	2.0000e-005	0.0000	0.4029
Worker	3.9000e-004	2.8000e-004	3.2700e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.9376	0.9376	2.0000e-005	0.0000	0.9382
Total	**4.3000e-004**	**1.4800e-003**	**3.6600e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.3400**	**1.3400**	**4.0000e-005**	**0.0000**	**1.3411**

3.28 WTP - Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2900e-003	0.0440	0.0546	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	7.4005	7.4005	2.3900e-003	0.0000	7.4603
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.1900e-003**	**0.0440**	**0.0546**	**8.0000e-005**		**2.2900e-003**	**2.2900e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**7.4005**	**7.4005**	**2.3900e-003**	**0.0000**	**7.4603**

3.28 WTP - Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.3100e-003	1.1600e-003	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1239	1.1239	7.0000e-005	0.0000	1.1256
Worker	5.6000e-004	4.2000e-004	4.8100e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3167	1.3167	4.0000e-005	0.0000	1.3176
Total	**6.9000e-004**	**4.7300e-003**	**5.9700e-003**	**2.0000e-005**	**1.8000e-003**	**2.0000e-005**	**1.8200e-003**	**4.8000e-004**	**2.0000e-005**	**5.0000e-004**	**0.0000**	**2.4407**	**2.4407**	**1.1000e-004**	**0.0000**	**2.4432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2900e-003	0.0440	0.0546	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	7.4005	7.4005	2.3900e-003	0.0000	7.4603
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.1900e-003**	**0.0440**	**0.0546**	**8.0000e-005**		**2.2900e-003**	**2.2900e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**7.4005**	**7.4005**	**2.3900e-003**	**0.0000**	**7.4603**

3.28 WTP - Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.3100e-003	1.1600e-003	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1239	1.1239	7.0000e-005	0.0000	1.1256
Worker	5.6000e-004	4.2000e-004	4.8100e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3167	1.3167	4.0000e-005	0.0000	1.3176
Total	**6.9000e-004**	**4.7300e-003**	**5.9700e-003**	**2.0000e-005**	**1.8000e-003**	**2.0000e-005**	**1.8200e-003**	**4.8000e-004**	**2.0000e-005**	**5.0000e-004**	**0.0000**	**2.4407**	**2.4407**	**1.1000e-004**	**0.0000**	**2.4432**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	4.7900e-003	8.9200e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.1000e-004	2.1000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**6.2000e-004**	**4.7900e-003**	**8.9200e-003**	**1.0000e-005**	**1.1000e-004**	**2.3000e-004**	**3.4000e-004**	**1.0000e-005**	**2.1000e-004**	**2.2000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	3.0300e-003	1.0400e-003	1.0000e-005	3.1000e-004	1.0000e-005	3.1000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.2994	1.2994	9.0000e-005	0.0000	1.3015
Vendor	6.0000e-005	2.1300e-003	6.8000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7101	0.7101	4.0000e-005	0.0000	0.7110
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**3.8000e-004**	**5.3200e-003**	**3.6400e-003**	**3.0000e-005**	**1.1600e-003**	**2.0000e-005**	**1.1600e-003**	**3.0000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**2.5609**	**2.5609**	**1.4000e-004**	**0.0000**	**2.5644**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	4.7900e-003	8.9200e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.1000e-004	2.1000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**6.2000e-004**	**4.7900e-003**	**8.9200e-003**	**1.0000e-005**	**5.0000e-005**	**2.3000e-004**	**2.8000e-004**	**1.0000e-005**	**2.1000e-004**	**2.2000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.29 Well - SM-11 Grading - Well Pad - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	3.0300e-003	1.0400e-003	1.0000e-005	3.1000e-004	1.0000e-005	3.1000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.2994	1.2994	9.0000e-005	0.0000	1.3015
Vendor	6.0000e-005	2.1300e-003	6.8000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7101	0.7101	4.0000e-005	0.0000	0.7110
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**3.8000e-004**	**5.3200e-003**	**3.6400e-003**	**3.0000e-005**	**1.1600e-003**	**2.0000e-005**	**1.1600e-003**	**3.0000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**2.5609**	**2.5609**	**1.4000e-004**	**0.0000**	**2.5644**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	0.0129	0.0235	5.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	4.1331	4.1331	1.3400e-003	0.0000	4.1665
Total	**1.5200e-003**	**0.0129**	**0.0235**	**5.0000e-005**		**5.8000e-004**	**5.8000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**4.1331**	**4.1331**	**1.3400e-003**	**0.0000**	**4.1665**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7700e-003	5.7000e-004	1.0000e-005	1.6000e-004	0.0000	1.6000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5917	0.5917	3.0000e-005	0.0000	0.5925
Worker	3.8000e-004	2.7000e-004	3.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9192	0.9192	2.0000e-005	0.0000	0.9198
Total	**4.3000e-004**	**2.0400e-003**	**3.7700e-003**	**2.0000e-005**	**1.2600e-003**	**1.0000e-005**	**1.2600e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.5110**	**1.5110**	**5.0000e-005**	**0.0000**	**1.5123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	0.0129	0.0235	5.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	4.1331	4.1331	1.3400e-003	0.0000	4.1665
Total	**1.5200e-003**	**0.0129**	**0.0235**	**5.0000e-005**		**5.8000e-004**	**5.8000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**4.1331**	**4.1331**	**1.3400e-003**	**0.0000**	**4.1665**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7700e-003	5.7000e-004	1.0000e-005	1.6000e-004	0.0000	1.6000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5917	0.5917	3.0000e-005	0.0000	0.5925
Worker	3.8000e-004	2.7000e-004	3.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9192	0.9192	2.0000e-005	0.0000	0.9198
Total	**4.3000e-004**	**2.0400e-003**	**3.7700e-003**	**2.0000e-005**	**1.2600e-003**	**1.0000e-005**	**1.2600e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.5110**	**1.5110**	**5.0000e-005**	**0.0000**	**1.5123**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1000e-004	5.8100e-003	0.0122	2.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	1.7013	1.7013	5.5000e-004	0.0000	1.7151
Total	**7.1000e-004**	**5.8100e-003**	**0.0122**	**2.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**1.7013**	**1.7013**	**5.5000e-004**	**0.0000**	**1.7151**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.0600e-003	3.4000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3550	0.3550	2.0000e-005	0.0000	0.3555
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**2.6000e-004**	**1.2200e-003**	**2.2600e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9066**	**0.9066**	**3.0000e-005**	**0.0000**	**0.9074**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1000e-004	5.8100e-003	0.0122	2.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	1.7013	1.7013	5.5000e-004	0.0000	1.7151
Total	**7.1000e-004**	**5.8100e-003**	**0.0122**	**2.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**1.7013**	**1.7013**	**5.5000e-004**	**0.0000**	**1.7151**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.0600e-003	3.4000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3550	0.3550	2.0000e-005	0.0000	0.3555
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**2.6000e-004**	**1.2200e-003**	**2.2600e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9066**	**0.9066**	**3.0000e-005**	**0.0000**	**0.9074**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Unmitigated	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Industrial Park	2.00	0.00	0.00	10,400	10,400
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	2.00	0.00	0.00	10,400	10,400

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	20.00	20.00	20.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8445	59.8445	1.5300e-003	3.2000e-004	59.9774
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8445	59.8445	1.5300e-003	3.2000e-004	59.9774
NaturalGas Mitigated	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
NaturalGas Unmitigated	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	190050	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.0200e-003**	**9.3200e-003**	**7.8300e-003**	**6.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**10.1418**	**10.1418**	**1.9000e-004**	**1.9000e-004**	**10.2021**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	190050	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.0200e-003**	**9.3200e-003**	**7.8300e-003**	**6.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**10.1418**	**10.1418**	**1.9000e-004**	**1.9000e-004**	**10.2021**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	116550	59.8445	1.5300e-003	3.2000e-004	59.9774
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**59.8445**	**1.5300e-003**	**3.2000e-004**	**59.9774**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	116550	59.8445	1.5300e-003	3.2000e-004	59.9774
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**59.8445**	**1.5300e-003**	**3.2000e-004**	**59.9774**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2592					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2645**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2592					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2645**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.0932	3.3700e-003	1.9500e-003	17.7598
Unmitigated	17.0932	3.3700e-003	1.9500e-003	17.7598

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.42813 / 0	17.0932	3.3700e-003	1.9500e-003	17.7598
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.0932**	**3.3700e-003**	**1.9500e-003**	**17.7598**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.42813 / 0	17.0932	3.3700e-003	1.9500e-003	17.7598
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.0932**	**3.3700e-003**	**1.9500e-003**	**17.7598**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.3215	0.0781	0.0000	3.2739
Unmitigated	2.6429	0.1562	0.0000	6.5478

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	13.02	2.6429	0.1562	0.0000	6.5478
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**2.6429**	**0.1562**	**0.0000**	**6.5478**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	6.51	1.3215	0.0781	0.0000	3.2739
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**1.3215**	**0.0781**	**0.0000**	**3.2739**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion - Recycled Water Pipeline - Unmitigated

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.14	User Defined Unit	0.14	6,098.40	0
Other Asphalt Surfaces	0.14	Acre	0.14	6,098.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - No demolition.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of asphalt surface striping.

Vehicle Trips - No operational emissions.

Road Dust - No operational emissions.

Area Coating - No operational emissions.

Landscape Equipment - No operational emissions.

Energy Use - No operational emissions.

Water And Wastewater - No operational emissions.

Solid Waste - No operational emissions.

Construction Off-road Equipment Mitigation - Water Exposed Area, Frequency: 2 times per day.

Stationary Sources - User Defined - No operational emissions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,049.00	0.00

tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,049.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,148.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,148.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	3049	0
tblAreaCoating	Area_Nonresidential_Interior	9148	0
tblAreaCoating	Area_Parking	366	0
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	2.00
tblGrading	AcresOfGrading	0.00	0.14
tblGrading	MaterialExported	0.00	1,110.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	0.00	6,098.40
tblLandUse	LotAcreage	0.00	0.14
tblOffRoadEquipment	HorsePower	132.00	320.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblTripsAndVMT	HaulingTripNumber	139.00	140.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7222	11.0820	14.3493	0.0359	0.6653	0.3881	1.0534	0.1772	0.3578	0.5350	0.0000	3,634.4752	3,634.4752	0.7026	0.0000	3,652.0396
Maximum	**1.7222**	**11.0820**	**14.3493**	**0.0359**	**0.6653**	**0.3881**	**1.0534**	**0.1772**	**0.3578**	**0.5350**	**0.0000**	**3,634.4752**	**3,634.4752**	**0.7026**	**0.0000**	**3,652.0396**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7222	11.0820	14.3493	0.0359	0.6502	0.3881	1.0383	0.1753	0.3578	0.5331	0.0000	3,634.4752	3,634.4752	0.7026	0.0000	3,652.0396
Maximum	**1.7222**	**11.0820**	**14.3493**	**0.0359**	**0.6502**	**0.3881**	**1.0383**	**0.1753**	**0.3578**	**0.5331**	**0.0000**	**3,634.4752**	**3,634.4752**	**0.7026**	**0.0000**	**3,652.0396**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**2.27**	**0.00**	**1.43**	**1.08**	**0.00**	**0.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**7.0000e-005**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**7.0000e-005**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipeline - Site Preparation	Site Preparation	6/13/2023	6/13/2023	5	1	
2	Pipeline - Grading - Slurry Backfill	Grading	6/14/2023	6/27/2023	5	10	
3	Pipeline - Grading - Installation	Grading	6/14/2023	6/27/2023	5	10	
4	Pipeline - Continual Paving	Paving	6/14/2023	6/27/2023	5	10	
5	Pipeline - Final Paving	Paving	6/28/2023	6/29/2023	5	2	
6	Pipeline - Continual Pavement Striping	Architectural Coating	6/14/2023	6/27/2023	5	10	
7	Pipeline - Final Pavement Striping	Architectural Coating	6/30/2023	6/30/2023	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 366 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48

Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Concrete/Industrial Saws	0	8.00	81	0.73
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	1.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Pipeline - Grading - Installation	Concrete/Industrial Saws	0	8.00	81	0.73
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	1.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36
Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Final Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	140.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline - Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1919	1.8828	2.8831	4.7000e-003		0.0886	0.0886		0.0815	0.0815		455.2174	455.2174	0.1472		458.8980
Total	**0.1919**	**1.8828**	**2.8831**	**4.7000e-003**	**0.0000**	**0.0886**	**0.0886**	**0.0000**	**0.0815**	**0.0815**		**455.2174**	**455.2174**	**0.1472**		**458.8980**

3.2 Pipeline - Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0422	0.0266	0.3118	1.0000e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		99.6721	99.6721	2.5700e-003		99.7362
Total	**0.0511**	**0.3056**	**0.4062**	**1.9600e-003**	**0.1374**	**1.1900e-003**	**0.1386**	**0.0370**	**1.1100e-003**	**0.0381**		**202.3686**	**202.3686**	**8.4300e-003**		**202.5793**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1919	1.8828	2.8831	4.7000e-003		0.0886	0.0886		0.0815	0.0815	0.0000	455.2174	455.2174	0.1472		458.8980
Total	**0.1919**	**1.8828**	**2.8831**	**4.7000e-003**	**0.0000**	**0.0886**	**0.0886**	**0.0000**	**0.0815**	**0.0815**	**0.0000**	**455.2174**	**455.2174**	**0.1472**		**458.8980**

3.2 Pipeline - Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0422	0.0266	0.3118	1.0000e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		99.6721	99.6721	2.5700e-003		99.7362
Total	**0.0511**	**0.3056**	**0.4062**	**1.9600e-003**	**0.1374**	**1.1900e-003**	**0.1386**	**0.0370**	**1.1100e-003**	**0.0381**		**202.3686**	**202.3686**	**8.4300e-003**		**202.5793**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**		**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0169	0.0107	0.1247	4.0000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		39.8688	39.8688	1.0300e-003		39.8945
Total	**0.0258**	**0.2896**	**0.2192**	**1.3600e-003**	**0.0703**	**6.8000e-004**	**0.0710**	**0.0192**	**6.4000e-004**	**0.0199**		**142.5653**	**142.5653**	**6.8900e-003**		**142.7376**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0169	0.0107	0.1247	4.0000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		39.8688	39.8688	1.0300e-003		39.8945
Total	**0.0258**	**0.2896**	**0.2192**	**1.3600e-003**	**0.0703**	**6.8000e-004**	**0.0710**	**0.0192**	**6.4000e-004**	**0.0199**		**142.5653**	**142.5653**	**6.8900e-003**		**142.7376**

3.4 Pipeline - Grading - Installation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0274	0.0000	0.0274	3.5000e-003	0.0000	3.5000e-003			0.0000			0.0000
Off-Road	0.4542	3.9023	7.4417	0.0117		0.1959	0.1959		0.1802	0.1802		1,127.2651	1,127.2651	0.3646		1,136.3796
Total	**0.4542**	**3.9023**	**7.4417**	**0.0117**	**0.0274**	**0.1959**	**0.2233**	**3.5000e-003**	**0.1802**	**0.1837**		**1,127.2651**	**1,127.2651**	**0.3646**		**1,136.3796**

3.4 Pipeline - Grading - Installation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0747	2.3176	0.8296	0.0101	0.2448	4.2900e-003	0.2491	0.0671	4.1000e-003	0.0712		1,102.6935	1,102.6935	0.0758		1,104.5894
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.1342**	**2.6286**	**1.2982**	**0.0123**	**0.4046**	**5.6500e-003**	**0.4102**	**0.1101**	**5.3700e-003**	**0.1154**		**1,324.9965**	**1,324.9965**	**0.0848**		**1,327.1159**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0123	0.0000	0.0123	1.5800e-003	0.0000	1.5800e-003			0.0000			0.0000
Off-Road	0.4542	3.9023	7.4417	0.0117		0.1959	0.1959		0.1802	0.1802	0.0000	1,127.2651	1,127.2651	0.3646		1,136.3796
Total	**0.4542**	**3.9023**	**7.4417**	**0.0117**	**0.0123**	**0.1959**	**0.2082**	**1.5800e-003**	**0.1802**	**0.1818**	**0.0000**	**1,127.2651**	**1,127.2651**	**0.3646**		**1,136.3796**

3.4 Pipeline - Grading - Installation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0747	2.3176	0.8296	0.0101	0.2448	4.2900e-003	0.2491	0.0671	4.1000e-003	0.0712		1,102.6935	1,102.6935	0.0758		1,104.5894
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.1342**	**2.6286**	**1.2982**	**0.0123**	**0.4046**	**5.6500e-003**	**0.4102**	**0.1101**	**5.3700e-003**	**0.1154**		**1,324.9965**	**1,324.9965**	**0.0848**		**1,327.1159**

3.5 Pipeline - Continual Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630		709.3250	709.3250	0.2294		715.0603
Paving	0.0367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3823**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**		**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.5 Pipeline - Continual Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0253	0.0160	0.1871	6.0000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		59.8032	59.8032	1.5400e-003		59.8417
Total	**0.0342**	**0.2949**	**0.2815**	**1.5600e-003**	**0.0927**	**8.5000e-004**	**0.0935**	**0.0252**	**8.0000e-004**	**0.0260**		**162.4998**	**162.4998**	**7.4000e-003**		**162.6848**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630	0.0000	709.3250	709.3250	0.2294		715.0603
Paving	0.0367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3823**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**	**0.0000**	**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.5 Pipeline - Continual Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0253	0.0160	0.1871	6.0000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		59.8032	59.8032	1.5400e-003		59.8417
Total	**0.0342**	**0.2949**	**0.2815**	**1.5600e-003**	**0.0927**	**8.5000e-004**	**0.0935**	**0.0252**	**8.0000e-004**	**0.0260**		**162.4998**	**162.4998**	**7.4000e-003**		**162.6848**

3.6 Pipeline - Final Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630		709.3250	709.3250	0.2294		715.0603
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5291**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**		**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.6 Pipeline - Final Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0253	0.0160	0.1871	6.0000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		59.8032	59.8032	1.5400e-003		59.8417
Total	**0.0342**	**0.2949**	**0.2815**	**1.5600e-003**	**0.0927**	**8.5000e-004**	**0.0935**	**0.0252**	**8.0000e-004**	**0.0260**		**162.4998**	**162.4998**	**7.4000e-003**		**162.6848**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630	0.0000	709.3250	709.3250	0.2294		715.0603
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5291**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**	**0.0000**	**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.6 Pipeline - Final Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0253	0.0160	0.1871	6.0000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		59.8032	59.8032	1.5400e-003		59.8417
Total	**0.0342**	**0.2949**	**0.2815**	**1.5600e-003**	**0.0927**	**8.5000e-004**	**0.0935**	**0.0252**	**8.0000e-004**	**0.0260**		**162.4998**	**162.4998**	**7.4000e-003**		**162.6848**

3.7 Pipeline - Continual Pavement Striping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1696**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.7 Pipeline - Continual Pavement Striping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0169	0.0107	0.1247	4.0000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		39.8688	39.8688	1.0300e-003		39.8945
Total	**0.0258**	**0.2896**	**0.2192**	**1.3600e-003**	**0.0703**	**6.8000e-004**	**0.0710**	**0.0192**	**6.4000e-004**	**0.0199**		**142.5653**	**142.5653**	**6.8900e-003**		**142.7376**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.1696**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.7 Pipeline - Continual Pavement Striping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0169	0.0107	0.1247	4.0000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		39.8688	39.8688	1.0300e-003		39.8945
Total	**0.0258**	**0.2896**	**0.2192**	**1.3600e-003**	**0.0703**	**6.8000e-004**	**0.0710**	**0.0192**	**6.4000e-004**	**0.0199**		**142.5653**	**142.5653**	**6.8900e-003**		**142.7376**

3.8 Pipeline - Final Pavement Striping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**1.6964**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.8 Pipeline - Final Pavement Striping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0169	0.0107	0.1247	4.0000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		39.8688	39.8688	1.0300e-003		39.8945
Total	**0.0258**	**0.2896**	**0.2192**	**1.3600e-003**	**0.0703**	**6.8000e-004**	**0.0710**	**0.0192**	**6.4000e-004**	**0.0199**		**142.5653**	**142.5653**	**6.8900e-003**		**142.7376**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**1.6964**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.8 Pipeline - Final Pavement Striping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9000e-003	0.2790	0.0945	9.6000e-004	0.0256	3.4000e-004	0.0260	7.3700e-003	3.3000e-004	7.7000e-003		102.6965	102.6965	5.8600e-003		102.8431
Worker	0.0169	0.0107	0.1247	4.0000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		39.8688	39.8688	1.0300e-003		39.8945
Total	**0.0258**	**0.2896**	**0.2192**	**1.3600e-003**	**0.0703**	**6.8000e-004**	**0.0710**	**0.0192**	**6.4000e-004**	**0.0199**		**142.5653**	**142.5653**	**6.8900e-003**		**142.7376**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Unmitigated	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**		**7.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**		**7.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion - Recycled Water Pipeline - Unmitigated

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.14	User Defined Unit	0.14	6,098.40	0
Other Asphalt Surfaces	0.14	Acre	0.14	6,098.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - No demolition.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of asphalt surface striping.

Vehicle Trips - No operational emissions.

Road Dust - No operational emissions.

Area Coating - No operational emissions.

Landscape Equipment - No operational emissions.

Energy Use - No operational emissions.

Water And Wastewater - No operational emissions.

Solid Waste - No operational emissions.

Construction Off-road Equipment Mitigation - Water Exposed Area, Frequency: 2 times per day.

Stationary Sources - User Defined - No operational emissions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,049.00	0.00

tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,049.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,148.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,148.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	3049	0
tblAreaCoating	Area_Nonresidential_Interior	9148	0
tblAreaCoating	Area_Parking	366	0
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	2.00
tblGrading	AcresOfGrading	0.00	0.14
tblGrading	MaterialExported	0.00	1,110.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	0.00	6,098.40
tblLandUse	LotAcreage	0.00	0.14
tblOffRoadEquipment	HorsePower	132.00	320.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblTripsAndVMT	HaulingTripNumber	139.00	140.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7200	11.0643	14.3636	0.0364	0.6653	0.3879	1.0532	0.1772	0.3576	0.5348	0.0000	3,681.4962	3,681.4962	0.6996	0.0000	3,698.9867
Maximum	**1.7200**	**11.0643**	**14.3636**	**0.0364**	**0.6653**	**0.3879**	**1.0532**	**0.1772**	**0.3576**	**0.5348**	**0.0000**	**3,681.4962**	**3,681.4962**	**0.6996**	**0.0000**	**3,698.9867**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7200	11.0643	14.3636	0.0364	0.6502	0.3879	1.0381	0.1753	0.3576	0.5329	0.0000	3,681.4962	3,681.4962	0.6996	0.0000	3,698.9867
Maximum	**1.7200**	**11.0643**	**14.3636**	**0.0364**	**0.6502**	**0.3879**	**1.0381**	**0.1753**	**0.3576**	**0.5329**	**0.0000**	**3,681.4962**	**3,681.4962**	**0.6996**	**0.0000**	**3,698.9867**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**2.27**	**0.00**	**1.43**	**1.08**	**0.00**	**0.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**7.0000e-005**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**7.0000e-005**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipeline - Site Preparation	Site Preparation	6/13/2023	6/13/2023	5	1	
2	Pipeline - Grading - Slurry Backfill	Grading	6/14/2023	6/27/2023	5	10	
3	Pipeline - Grading - Installation	Grading	6/14/2023	6/27/2023	5	10	
4	Pipeline - Continual Paving	Paving	6/14/2023	6/27/2023	5	10	
5	Pipeline - Final Paving	Paving	6/28/2023	6/29/2023	5	2	
6	Pipeline - Continual Pavement Striping	Architectural Coating	6/14/2023	6/27/2023	5	10	
7	Pipeline - Final Pavement Striping	Architectural Coating	6/30/2023	6/30/2023	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 366 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48

Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Concrete/Industrial Saws	0	8.00	81	0.73
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	1.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Pipeline - Grading - Installation	Concrete/Industrial Saws	0	8.00	81	0.73
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	1.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36
Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Final Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	140.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline - Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1919	1.8828	2.8831	4.7000e-003		0.0886	0.0886		0.0815	0.0815		455.2174	455.2174	0.1472		458.8980
Total	**0.1919**	**1.8828**	**2.8831**	**4.7000e-003**	**0.0000**	**0.0886**	**0.0886**	**0.0000**	**0.0815**	**0.0815**		**455.2174**	**455.2174**	**0.1472**		**458.8980**

3.2 Pipeline - Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0377	0.0241	0.3422	1.0600e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		105.8482	105.8482	2.7300e-003		105.9166
Total	**0.0462**	**0.3043**	**0.4290**	**2.0500e-003**	**0.1374**	**1.1700e-003**	**0.1386**	**0.0370**	**1.0900e-003**	**0.0381**		**211.4112**	**211.4112**	**8.2700e-003**		**211.6181**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1919	1.8828	2.8831	4.7000e-003		0.0886	0.0886		0.0815	0.0815	0.0000	455.2174	455.2174	0.1472		458.8980
Total	**0.1919**	**1.8828**	**2.8831**	**4.7000e-003**	**0.0000**	**0.0886**	**0.0886**	**0.0000**	**0.0815**	**0.0815**	**0.0000**	**455.2174**	**455.2174**	**0.1472**		**458.8980**

3.2 Pipeline - Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0377	0.0241	0.3422	1.0600e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		105.8482	105.8482	2.7300e-003		105.9166
Total	**0.0462**	**0.3043**	**0.4290**	**2.0500e-003**	**0.1374**	**1.1700e-003**	**0.1386**	**0.0370**	**1.0900e-003**	**0.0381**		**211.4112**	**211.4112**	**8.2700e-003**		**211.6181**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**		**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0151	9.6300e-003	0.1369	4.2000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.3393	42.3393	1.0900e-003		42.3666
Total	**0.0236**	**0.2899**	**0.2236**	**1.4100e-003**	**0.0703**	**6.6000e-004**	**0.0710**	**0.0192**	**6.2000e-004**	**0.0199**		**147.9023**	**147.9023**	**6.6300e-003**		**148.0682**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0151	9.6300e-003	0.1369	4.2000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.3393	42.3393	1.0900e-003		42.3666
Total	**0.0236**	**0.2899**	**0.2236**	**1.4100e-003**	**0.0703**	**6.6000e-004**	**0.0710**	**0.0192**	**6.2000e-004**	**0.0199**		**147.9023**	**147.9023**	**6.6300e-003**		**148.0682**

3.4 Pipeline - Grading - Installation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0274	0.0000	0.0274	3.5000e-003	0.0000	3.5000e-003			0.0000			0.0000
Off-Road	0.4542	3.9023	7.4417	0.0117		0.1959	0.1959		0.1802	0.1802		1,127.2651	1,127.2651	0.3646		1,136.3796
Total	**0.4542**	**3.9023**	**7.4417**	**0.0117**	**0.0274**	**0.1959**	**0.2233**	**3.5000e-003**	**0.1802**	**0.1837**		**1,127.2651**	**1,127.2651**	**0.3646**		**1,136.3796**

3.4 Pipeline - Grading - Installation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0729	2.3015	0.7956	0.0103	0.2448	4.1700e-003	0.2490	0.0671	3.9900e-003	0.0711		1,122.1907	1,122.1907	0.0737		1,124.0339
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.1266**	**2.6106**	**1.2930**	**0.0126**	**0.4046**	**5.5100e-003**	**0.4101**	**0.1101**	**5.2400e-003**	**0.1153**		**1,354.7716**	**1,354.7716**	**0.0826**		**1,356.8353**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0123	0.0000	0.0123	1.5800e-003	0.0000	1.5800e-003			0.0000			0.0000
Off-Road	0.4542	3.9023	7.4417	0.0117		0.1959	0.1959		0.1802	0.1802	0.0000	1,127.2651	1,127.2651	0.3646		1,136.3796
Total	**0.4542**	**3.9023**	**7.4417**	**0.0117**	**0.0123**	**0.1959**	**0.2082**	**1.5800e-003**	**0.1802**	**0.1818**	**0.0000**	**1,127.2651**	**1,127.2651**	**0.3646**		**1,136.3796**

3.4 Pipeline - Grading - Installation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0729	2.3015	0.7956	0.0103	0.2448	4.1700e-003	0.2490	0.0671	3.9900e-003	0.0711		1,122.1907	1,122.1907	0.0737		1,124.0339
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.1266**	**2.6106**	**1.2930**	**0.0126**	**0.4046**	**5.5100e-003**	**0.4101**	**0.1101**	**5.2400e-003**	**0.1153**		**1,354.7716**	**1,354.7716**	**0.0826**		**1,356.8353**

3.5 Pipeline - Continual Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630		709.3250	709.3250	0.2294		715.0603
Paving	0.0367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3823**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**		**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.5 Pipeline - Continual Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0226	0.0145	0.2053	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		63.5089	63.5089	1.6400e-003		63.5499
Total	**0.0311**	**0.2947**	**0.2921**	**1.6300e-003**	**0.0927**	**8.3000e-004**	**0.0935**	**0.0252**	**7.8000e-004**	**0.0259**		**169.0719**	**169.0719**	**7.1800e-003**		**169.2515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630	0.0000	709.3250	709.3250	0.2294		715.0603
Paving	0.0367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3823**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**	**0.0000**	**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.5 Pipeline - Continual Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0226	0.0145	0.2053	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		63.5089	63.5089	1.6400e-003		63.5499
Total	**0.0311**	**0.2947**	**0.2921**	**1.6300e-003**	**0.0927**	**8.3000e-004**	**0.0935**	**0.0252**	**7.8000e-004**	**0.0259**		**169.0719**	**169.0719**	**7.1800e-003**		**169.2515**

3.6 Pipeline - Final Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630		709.3250	709.3250	0.2294		715.0603
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5291**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**		**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.6 Pipeline - Final Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0226	0.0145	0.2053	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		63.5089	63.5089	1.6400e-003		63.5499
Total	**0.0311**	**0.2947**	**0.2921**	**1.6300e-003**	**0.0927**	**8.3000e-004**	**0.0935**	**0.0252**	**7.8000e-004**	**0.0259**		**169.0719**	**169.0719**	**7.1800e-003**		**169.2515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3457	3.4929	4.7354	7.3300e-003		0.1772	0.1772		0.1630	0.1630	0.0000	709.3250	709.3250	0.2294		715.0603
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5291**	**3.4929**	**4.7354**	**7.3300e-003**		**0.1772**	**0.1772**		**0.1630**	**0.1630**	**0.0000**	**709.3250**	**709.3250**	**0.2294**		**715.0603**

3.6 Pipeline - Final Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0226	0.0145	0.2053	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		63.5089	63.5089	1.6400e-003		63.5499
Total	**0.0311**	**0.2947**	**0.2921**	**1.6300e-003**	**0.0927**	**8.3000e-004**	**0.0935**	**0.0252**	**7.8000e-004**	**0.0259**		**169.0719**	**169.0719**	**7.1800e-003**		**169.2515**

3.7 Pipeline - Continual Pavement Striping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1696**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.7 Pipeline - Continual Pavement Striping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0151	9.6300e-003	0.1369	4.2000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.3393	42.3393	1.0900e-003		42.3666
Total	**0.0236**	**0.2899**	**0.2236**	**1.4100e-003**	**0.0703**	**6.6000e-004**	**0.0710**	**0.0192**	**6.2000e-004**	**0.0199**		**147.9023**	**147.9023**	**6.6300e-003**		**148.0682**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.1696**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.7 Pipeline - Continual Pavement Striping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0151	9.6300e-003	0.1369	4.2000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.3393	42.3393	1.0900e-003		42.3666
Total	**0.0236**	**0.2899**	**0.2236**	**1.4100e-003**	**0.0703**	**6.6000e-004**	**0.0710**	**0.0192**	**6.2000e-004**	**0.0199**		**147.9023**	**147.9023**	**6.6300e-003**		**148.0682**

3.8 Pipeline - Final Pavement Striping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**1.6964**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.8 Pipeline - Final Pavement Striping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0151	9.6300e-003	0.1369	4.2000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.3393	42.3393	1.0900e-003		42.3666
Total	**0.0236**	**0.2899**	**0.2236**	**1.4100e-003**	**0.0703**	**6.6000e-004**	**0.0710**	**0.0192**	**6.2000e-004**	**0.0199**		**147.9023**	**147.9023**	**6.6300e-003**		**148.0682**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.6964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**1.6964**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.8 Pipeline - Final Pavement Striping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.4700e-003	0.2802	0.0868	9.9000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.1000e-004	7.6800e-003		105.5630	105.5630	5.5400e-003		105.7015
Worker	0.0151	9.6300e-003	0.1369	4.2000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.3393	42.3393	1.0900e-003		42.3666
Total	**0.0236**	**0.2899**	**0.2236**	**1.4100e-003**	**0.0703**	**6.6000e-004**	**0.0710**	**0.0192**	**6.2000e-004**	**0.0199**		**147.9023**	**147.9023**	**6.6300e-003**		**148.0682**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Unmitigated	0.1229	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**		**7.0000e-005**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		6.0000e-005	6.0000e-005	0.0000		7.0000e-005
Total	**0.1229**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**6.0000e-005**	**6.0000e-005**	**0.0000**		**7.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion - Recycled Water Pipeline - Unmitigated

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.14	User Defined Unit	0.14	6,098.40	0
Other Asphalt Surfaces	0.14	Acre	0.14	6,098.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - No demolition.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of asphalt surface striping.

Vehicle Trips - No operational emissions.

Road Dust - No operational emissions.

Area Coating - No operational emissions.

Landscape Equipment - No operational emissions.

Energy Use - No operational emissions.

Water And Wastewater - No operational emissions.

Solid Waste - No operational emissions.

Construction Off-road Equipment Mitigation - Water Exposed Area, Frequency: 2 times per day.

Stationary Sources - User Defined - No operational emissions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,049.00	0.00

tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	3,049.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,148.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	9,148.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	3049	0
tblAreaCoating	Area_Nonresidential_Interior	9148	0
tblAreaCoating	Area_Parking	366	0
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	1.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	5.00	2.00
tblGrading	AcresOfGrading	0.00	0.14
tblGrading	MaterialExported	0.00	1,110.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	0.00	6,098.40
tblLandUse	LotAcreage	0.00	0.14
tblOffRoadEquipment	HorsePower	132.00	320.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblTripsAndVMT	HaulingTripNumber	139.00	140.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	4.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	7.7500e-003	0.0608	0.0785	1.9000e-004	3.4600e-003	2.1600e-003	5.6200e-003	9.2000e-004	1.9900e-003	2.9200e-003	0.0000	17.7455	17.7455	3.4700e-003	0.0000	17.8322
Maximum	**7.7500e-003**	**0.0608**	**0.0785**	**1.9000e-004**	**3.4600e-003**	**2.1600e-003**	**5.6200e-003**	**9.2000e-004**	**1.9900e-003**	**2.9200e-003**	**0.0000**	**17.7455**	**17.7455**	**3.4700e-003**	**0.0000**	**17.8322**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	7.7500e-003	0.0608	0.0785	1.9000e-004	3.3900e-003	2.1600e-003	5.5500e-003	9.1000e-004	1.9900e-003	2.9100e-003	0.0000	17.7455	17.7455	3.4700e-003	0.0000	17.8322
Maximum	**7.7500e-003**	**0.0608**	**0.0785**	**1.9000e-004**	**3.3900e-003**	**2.1600e-003**	**5.5500e-003**	**9.1000e-004**	**1.9900e-003**	**2.9100e-003**	**0.0000**	**17.7455**	**17.7455**	**3.4700e-003**	**0.0000**	**17.8322**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**2.02**	**0.00**	**1.25**	**1.09**	**0.00**	**0.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
14	5-13-2023	8-12-2023	0.0662	0.0662
		Highest	0.0662	0.0662

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0224	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0224**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0224	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0224**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Pipeline - Site Preparation	Site Preparation	6/13/2023	6/13/2023	5	1	
2	Pipeline - Grading - Slurry Backfill	Grading	6/14/2023	6/27/2023	5	10	
3	Pipeline - Grading - Installation	Grading	6/14/2023	6/27/2023	5	10	
4	Pipeline - Continual Paving	Paving	6/14/2023	6/27/2023	5	10	
5	Pipeline - Final Paving	Paving	6/28/2023	6/29/2023	5	2	
6	Pipeline - Continual Pavement Striping	Architectural Coating	6/14/2023	6/27/2023	5	10	
7	Pipeline - Final Pavement Striping	Architectural Coating	6/30/2023	6/30/2023	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 366 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48
Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Concrete/Industrial Saws	0	8.00	81	0.73
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	1.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	6.00	97	0.37

Pipeline - Grading - Installation	Concrete/Industrial Saws	0	8.00	81	0.73
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	1.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36
Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Final Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	140.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline - Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-004	9.4000e-004	1.4400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.2065	0.2065	7.0000e-005	0.0000	0.2082
Total	**1.0000e-004**	**9.4000e-004**	**1.4400e-003**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.2065**	**0.2065**	**7.0000e-005**	**0.0000**	**0.2082**

3.2 Pipeline - Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.4000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0473	0.0473	0.0000	0.0000	0.0474
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0460	0.0460	0.0000	0.0000	0.0460
Total	**2.0000e-005**	**1.5000e-004**	**2.1000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**7.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0933**	**0.0933**	**0.0000**	**0.0000**	**0.0934**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-004	9.4000e-004	1.4400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.2065	0.2065	7.0000e-005	0.0000	0.2082
Total	**1.0000e-004**	**9.4000e-004**	**1.4400e-003**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.2065**	**0.2065**	**7.0000e-005**	**0.0000**	**0.2082**

3.2 Pipeline - Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.4000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0473	0.0473	0.0000	0.0000	0.0474
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0460	0.0460	0.0000	0.0000	0.0460
Total	**2.0000e-005**	**1.5000e-004**	**2.1000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**7.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0933**	**0.0933**	**0.0000**	**0.0000**	**0.0934**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	9.2000e-004	7.7000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1146	0.1146	1.0000e-005	0.0000	0.1149
Total	**1.5000e-004**	**9.2000e-004**	**7.7000e-004**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.1146**	**0.1146**	**1.0000e-005**	**0.0000**	**0.1149**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	8.0000e-005	5.0000e-005	6.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1839	0.1839	0.0000	0.0000	0.1840
Total	**1.2000e-004**	**1.4700e-003**	**1.0900e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.6572**	**0.6572**	**3.0000e-005**	**0.0000**	**0.6580**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	9.2000e-004	7.7000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1146	0.1146	1.0000e-005	0.0000	0.1149
Total	**1.5000e-004**	**9.2000e-004**	**7.7000e-004**	**0.0000**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.1146**	**0.1146**	**1.0000e-005**	**0.0000**	**0.1149**

3.3 Pipeline - Grading - Slurry Backfill - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	8.0000e-005	5.0000e-005	6.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1839	0.1839	0.0000	0.0000	0.1840
Total	**1.2000e-004**	**1.4700e-003**	**1.0900e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.6572**	**0.6572**	**3.0000e-005**	**0.0000**	**0.6580**

3.4 Pipeline - Grading - Installation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4000e-004	0.0000	1.4000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2700e-003	0.0195	0.0372	6.0000e-005		9.8000e-004	9.8000e-004		9.0000e-004	9.0000e-004	0.0000	5.1132	5.1132	1.6500e-003	0.0000	5.1545
Total	**2.2700e-003**	**0.0195**	**0.0372**	**6.0000e-005**	**1.4000e-004**	**9.8000e-004**	**1.1200e-003**	**2.0000e-005**	**9.0000e-004**	**9.2000e-004**	**0.0000**	**5.1132**	**5.1132**	**1.6500e-003**	**0.0000**	**5.1545**

3.4 Pipeline - Grading - Installation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7000e-004	0.0118	4.0500e-003	5.0000e-005	1.2000e-003	2.0000e-005	1.2200e-003	3.3000e-004	2.0000e-005	3.5000e-004	0.0000	5.0530	5.0530	3.4000e-004	0.0000	5.0615
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**6.4000e-004**	**0.0134**	**6.4200e-003**	**6.0000e-005**	**1.9900e-003**	**3.0000e-005**	**2.0100e-003**	**5.4000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**6.0779**	**6.0779**	**3.8000e-004**	**0.0000**	**6.0874**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2700e-003	0.0195	0.0372	6.0000e-005		9.8000e-004	9.8000e-004		9.0000e-004	9.0000e-004	0.0000	5.1132	5.1132	1.6500e-003	0.0000	5.1545
Total	**2.2700e-003**	**0.0195**	**0.0372**	**6.0000e-005**	**6.0000e-005**	**9.8000e-004**	**1.0400e-003**	**1.0000e-005**	**9.0000e-004**	**9.1000e-004**	**0.0000**	**5.1132**	**5.1132**	**1.6500e-003**	**0.0000**	**5.1545**

3.4 Pipeline - Grading - Installation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7000e-004	0.0118	4.0500e-003	5.0000e-005	1.2000e-003	2.0000e-005	1.2200e-003	3.3000e-004	2.0000e-005	3.5000e-004	0.0000	5.0530	5.0530	3.4000e-004	0.0000	5.0615
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**6.4000e-004**	**0.0134**	**6.4200e-003**	**6.0000e-005**	**1.9900e-003**	**3.0000e-005**	**2.0100e-003**	**5.4000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**6.0779**	**6.0779**	**3.8000e-004**	**0.0000**	**6.0874**

3.5 Pipeline - Continual Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0175	0.0237	4.0000e-005		8.9000e-004	8.9000e-004		8.1000e-004	8.1000e-004	0.0000	3.2174	3.2174	1.0400e-003	0.0000	3.2435
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9100e-003**	**0.0175**	**0.0237**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.1000e-004**	**8.1000e-004**	**0.0000**	**3.2174**	**3.2174**	**1.0400e-003**	**0.0000**	**3.2435**

3.5 Pipeline - Continual Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	1.1000e-004	8.0000e-005	9.6000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2758	0.2758	1.0000e-005	0.0000	0.2760
Total	**1.5000e-004**	**1.5000e-003**	**1.4100e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7491**	**0.7491**	**4.0000e-005**	**0.0000**	**0.7500**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0175	0.0237	4.0000e-005		8.9000e-004	8.9000e-004		8.1000e-004	8.1000e-004	0.0000	3.2174	3.2174	1.0400e-003	0.0000	3.2435
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9100e-003**	**0.0175**	**0.0237**	**4.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.1000e-004**	**8.1000e-004**	**0.0000**	**3.2174**	**3.2174**	**1.0400e-003**	**0.0000**	**3.2435**

3.5 Pipeline - Continual Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	1.1000e-004	8.0000e-005	9.6000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2758	0.2758	1.0000e-005	0.0000	0.2760
Total	**1.5000e-004**	**1.5000e-003**	**1.4100e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7491**	**0.7491**	**4.0000e-005**	**0.0000**	**0.7500**

3.6 Pipeline - Final Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5000e-004	3.4900e-003	4.7400e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.6000e-004	1.6000e-004	0.0000	0.6435	0.6435	2.1000e-004	0.0000	0.6487
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3000e-004**	**3.4900e-003**	**4.7400e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.6435**	**0.6435**	**2.1000e-004**	**0.0000**	**0.6487**

3.6 Pipeline - Final Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.8000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0947	0.0947	1.0000e-005	0.0000	0.0948
Worker	2.0000e-005	2.0000e-005	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0552	0.0552	0.0000	0.0000	0.0552
Total	**3.0000e-005**	**3.0000e-004**	**2.8000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1498**	**0.1498**	**1.0000e-005**	**0.0000**	**0.1500**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5000e-004	3.4900e-003	4.7400e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.6000e-004	1.6000e-004	0.0000	0.6435	0.6435	2.1000e-004	0.0000	0.6487
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3000e-004**	**3.4900e-003**	**4.7400e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.6435**	**0.6435**	**2.1000e-004**	**0.0000**	**0.6487**

3.6 Pipeline - Final Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.8000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0947	0.0947	1.0000e-005	0.0000	0.0948
Worker	2.0000e-005	2.0000e-005	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0552	0.0552	0.0000	0.0000	0.0552
Total	**3.0000e-005**	**3.0000e-004**	**2.8000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1498**	**0.1498**	**1.0000e-005**	**0.0000**	**0.1500**

3.7 Pipeline - Continual Pavement Striping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.5000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Pipeline - Continual Pavement Striping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	8.0000e-005	5.0000e-005	6.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1839	0.1839	0.0000	0.0000	0.1840
Total	**1.2000e-004**	**1.4700e-003**	**1.0900e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.6572**	**0.6572**	**3.0000e-005**	**0.0000**	**0.6580**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.5000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Pipeline - Continual Pavement Striping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4200e-003	4.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4734	0.4734	3.0000e-005	0.0000	0.4740
Worker	8.0000e-005	5.0000e-005	6.4000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1839	0.1839	0.0000	0.0000	0.1840
Total	**1.2000e-004**	**1.4700e-003**	**1.0900e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.6572**	**0.6572**	**3.0000e-005**	**0.0000**	**0.6580**

3.8 Pipeline - Final Pavement Striping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.5000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Pipeline - Final Pavement Striping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.4000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0473	0.0473	0.0000	0.0000	0.0474
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0184	0.0184	0.0000	0.0000	0.0184
Total	**1.0000e-005**	**1.5000e-004**	**1.1000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0657**	**0.0657**	**0.0000**	**0.0000**	**0.0658**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.5000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.8 Pipeline - Final Pavement Striping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.4000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0473	0.0473	0.0000	0.0000	0.0474
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0184	0.0184	0.0000	0.0000	0.0184
Total	**1.0000e-005**	**1.5000e-004**	**1.1000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0657**	**0.0657**	**0.0000**	**0.0000**	**0.0658**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0224	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0224	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0224					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0224**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0224					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0224**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Mitigated

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.50	1000sqft	0.24	10,500.00	0
Industrial Park	1.00	1000sqft	0.00	1,000.00	0
User Defined Industrial	0.74	User Defined Unit	0.74	32,400.00	0
User Defined Industrial	0.63	User Defined Unit	0.63	27,300.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	30,056.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.
Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-10 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-11 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-8 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-9 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - WTP - Architectural Coating: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 1: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 2: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 3: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 4: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 5: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 6: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 7: Applicant-provided data.

Off-road Equipment - WTP - Demolition: Applicant-provided data.

Off-road Equipment - WTP - Paving: Applicant-provided data.

Off-road Equipment - WTP - Site Preparation and Grading: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - Demolition: WTP - Demolition. 5,725 SF total.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of new buildings and asphalt surface striping.

Vehicle Trips - No net new worker operational trips anticipated. Minimal, infrequent net new truck deliveries anticipated (maximum 2 one-way trips per day).

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Road Dust - Operational mobile source emissions not estimated.

Woodstoves - No hearths.

Consumer Products - CalEEMod default values.

Area Coating - Operational architectural coating for 10,500 SF of building (conservative as some surfaces would not require coating).

Landscape Equipment - No increase in landscape maintenance activity from existing conditions.

Energy Use - CalEEMod default values for General Light Industry.

Water And Wastewater - CalEEMod default values for water use. 100% aerobic.

Solid Waste - CalEEMod default values.

Construction Off-road Equipment Mitigation - Off-road Equipment: All equipment over 50 HP assumed to meet Tier 4 Interim standards. Water Exposed Area, Frequency: 3 times per day.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No area mitigation.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water mitigation.

Waste Mitigation - Percent Reduction in Waste Disposed: 50%. Waste diversion consistent with Assembly Bill 939.

Operational Off-Road Equipment - No operational offroad equipment.

Fleet Mix - Industrial Park: 50% MHDT/50% HHDT.

Stationary Sources - User Defined - No operational stationary sources.

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Mitigated - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	15,750.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	35600	5250
tblAreaCoating	Area_Nonresidential_Interior	106800	15750
tblAreaCoating	Area_Parking	1803	1944
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	10.00	72.00
tblConstructionPhase	NumDays	220.00	133.00
tblConstructionPhase	NumDays	220.00	143.00
tblConstructionPhase	NumDays	220.00	67.00
tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	220.00	31.00

tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	220.00	67.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	6.00	60.00
tblConstructionPhase	NumDays	6.00	60.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	3.00	5.00
tblEnergyUse	LightingElect	3.77	0.00
tblEnergyUse	NT24E	4.62	0.00
tblEnergyUse	NT24NG	0.39	0.00
tblEnergyUse	T24E	4.60	0.00
tblEnergyUse	T24NG	10.02	0.00
tblFleetMix	HHD	0.03	0.50

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.2530e-003	0.00
tblFleetMix	MCY	5.2170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.5000e-004	0.00
tblFleetMix	MHD	0.02	0.50
tblFleetMix	OBUS	2.5600e-003	0.00
tblFleetMix	SBUS	6.9600e-004	0.00
tblFleetMix	UBUS	2.0710e-003	0.00
tblGrading	AcresOfGrading	0.00	0.17
tblGrading	AcresOfGrading	0.00	0.17
tblGrading	AcresOfGrading	0.00	0.28
tblGrading	AcresOfGrading	0.00	0.74
tblGrading	AcresOfGrading	10.00	0.69
tblGrading	AcresOfGrading	0.00	0.17
tblGrading	MaterialExported	0.00	285.00
tblGrading	MaterialExported	0.00	285.00
tblGrading	MaterialExported	0.00	450.00
tblGrading	MaterialExported	0.00	4,075.00
tblGrading	MaterialExported	0.00	285.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	0.00	27,300.00
tblLandUse	LandUseSquareFeet	0.00	32,400.00
tblLandUse	LotAcreage	0.02	0.00

tblLandUse	LotAcreage	0.00	0.63
tblLandUse	LotAcreage	0.00	0.74
tblOffRoadEquipment	HorsePower	132.00	320.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00

tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripNumber	509.00	510.00
tblTripsAndVMT	HaulingTripNumber	26.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	84.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
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tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
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tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
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tblTripsAndVMT	WorkerTripNumber	43.00	16.00
tblTripsAndVMT	WorkerTripNumber	43.00	10.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00

tblTripsAndVMT	WorkerTripNumber	43.00	24.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	9.00	12.00
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tblVehicleTrips	CC_TL	8.40	20.00
tblVehicleTrips	CNW_TL	6.90	20.00
tblVehicleTrips	CW_TL	16.60	20.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	6.83	2.00
tblWater	AerobicPercent	87.46	100.00

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.8210	9.9442	8.2281	0.0273	0.8187	0.2212	1.0399	0.2101	0.2060	0.4161	0.0000	2,786.2322	2,786.2322	0.3728	0.0000	2,795.5513
2021	9.0423	13.9153	14.3968	0.0327	0.5625	0.5306	1.0931	0.1499	0.4891	0.6390	0.0000	3,275.3900	3,275.3900	0.6830	0.0000	3,292.4644
2022	3.4026	35.4462	31.3134	0.0649	6.6971	1.5875	8.2847	3.4589	1.4727	4.9317	0.0000	6,308.9103	6,308.9103	1.3628	0.0000	6,342.9793
2023	1.6625	2.0048	2.8362	8.1800e-003	0.2567	0.0956	0.3045	0.0663	0.0955	0.1348	0.0000	832.5120	832.5120	0.1229	0.0000	835.3837
Maximum	**9.0423**	**35.4462**	**31.3134**	**0.0649**	**6.6971**	**1.5875**	**8.2847**	**3.4589**	**1.4727**	**4.9317**	**0.0000**	**6,308.9103**	**6,308.9103**	**1.3628**	**0.0000**	**6,342.9793**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.4607	9.1880	8.9241	0.0273	0.7716	0.0372	0.8087	0.2047	0.0360	0.2407	0.0000	2,786.2322	2,786.2322	0.3728	0.0000	2,795.5513
2021	9.0423	12.4190	16.1838	0.0327	0.5498	0.0732	0.6230	0.1483	0.0701	0.2184	0.0000	3,275.3900	3,275.3900	0.6830	0.0000	3,292.4644
2022	1.9463	21.2431	38.2914	0.0649	2.8638	0.1287	2.9423	1.4165	0.1280	1.4945	0.0000	6,308.9103	6,308.9103	1.3628	0.0000	6,342.9793
2023	1.4796	2.1847	2.8890	8.1800e-003	0.2438	7.0300e-003	0.2507	0.0648	6.9700e-003	0.0716	0.0000	832.5120	832.5120	0.1229	0.0000	835.3837
Maximum	**9.0423**	**21.2431**	**38.2914**	**0.0649**	**2.8638**	**0.1287**	**2.9423**	**1.4165**	**0.1280**	**1.4945**	**0.0000**	**6,308.9103**	**6,308.9103**	**1.3628**	**0.0000**	**6,342.9793**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.39**	**26.55**	**-16.76**	**0.00**	**46.86**	**89.89**	**56.87**	**52.79**	**89.35**	**66.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932
Total	**1.4631**	**0.2709**	**0.1293**	**1.5100e-003**	**0.0370**	**4.3100e-003**	**0.0413**	**0.0106**	**4.2900e-003**	**0.0149**		**190.0113**	**190.0113**	**6.8600e-003**	**1.1200e-003**	**190.5175**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932
Total	**1.4631**	**0.2709**	**0.1293**	**1.5100e-003**	**0.0370**	**4.3100e-003**	**0.0413**	**0.0106**	**4.2900e-003**	**0.0149**		**190.0113**	**190.0113**	**6.8600e-003**	**1.1200e-003**	**190.5175**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Well - SM-10 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
2	Well - SM-8 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
3	Well - SM-9 Grading Well Pad	Grading	11/27/2020	12/10/2020	5	10	
4	Well - SM-10 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
5	Well - SM-8 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
6	Well - SM-9 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
7	Well - SM-10 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
8	Well - SM-8 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
9	Well - SM-9 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
10	Pipeline - Site Preparation	Site Preparation	2/28/2021	3/5/2021	5	5	
11	Pipeline - Grading - Slurry Backfill	Grading	3/6/2021	5/28/2021	5	60	
12	Pipeline - Grading - Installation	Grading	3/6/2021	5/28/2021	5	60	
13	Pipeline - Continual Paving	Paving	3/6/2021	5/28/2021	5	60	
14	Pipeline - Continual Pavement Striping	Architectural Coating	3/6/2021	5/28/2021	5	60	
15	Pipeline - Final Paving	Paving	5/29/2021	6/11/2021	5	10	
16	Pipeline - Final Pavement Striping	Architectural Coating	6/14/2021	6/14/2021	5	1	
17	WTP - Demolition	Demolition	1/21/2022	2/24/2022	5	25	

18	WTP - Site Preparation and Grading	Grading	2/1/2022	2/28/2022	5	20	
19	WTP - Building Construction 3	Building Construction	3/1/2022	9/1/2022	5	133	
20	WTP - Building Construction 4	Building Construction	3/1/2022	9/15/2022	5	143	
21	WTP - Building Construction 1	Building Construction	3/1/2022	6/1/2022	5	67	
22	WTP - Building Construction 2	Building Construction	3/1/2022	7/1/2022	5	89	
23	WTP - Building Construction 5	Building Construction	4/1/2022	5/13/2022	5	31	
24	WTP - Building Construction 6	Building Construction	5/1/2022	9/1/2022	5	89	
25	WTP - Building Construction 7	Building Construction	8/1/2022	11/1/2022	5	67	
26	WTP - Architectural Coating	Architectural Coating	10/15/2022	1/24/2023	5	72	
27	WTP - Paving	Paving	11/1/2022	12/1/2022	5	23	
28	Well - SM-11 Grading - Well Pad	Grading	7/1/2023	7/14/2023	5	10	
29	Well - SM-11 Building Construction - Well Equipping	Building Construction	7/15/2023	8/18/2023	5	25	
30	Well - SM-11 Building Construction - Artistic Fencing	Building Construction	8/19/2023	9/8/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,944 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Well - SM-10 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-10 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-10 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-10 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40

Well - SM-10 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-8 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-8 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-8 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-8 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-8 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-9 Grading Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-9 Grading Well Pad	Excavators	1	4.00	158	0.38
Well - SM-9 Grading Well Pad	Graders	0	8.00	187	0.41
Well - SM-9 Grading Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-9 Grading Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-10 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-10 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-8 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74

Well - SM-8 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-8 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-9 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-10 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Artistic Fencing	Excavators	0	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20

Well - SM-8 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48
Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36

Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48
WTP - Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
WTP - Demolition	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
WTP - Site Preparation and Grading	Graders	1	8.00	187	0.41
WTP - Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Site Preparation and Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WTP - Building Construction 3	Cranes	0	8.00	231	0.29
WTP - Building Construction 3	Forklifts	0	7.00	89	0.20
WTP - Building Construction 3	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 3	Welders	0	8.00	46	0.45
WTP - Building Construction 4	Cranes	1	2.00	231	0.29
WTP - Building Construction 4	Forklifts	0	7.00	89	0.20
WTP - Building Construction 4	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 4	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 4	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 4	Welders	0	8.00	46	0.45
WTP - Building Construction 1	Cranes	1	2.00	231	0.29

WTP - Building Construction 1	Forklifts	1	4.00	89	0.20
WTP - Building Construction 1	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 1	Welders	0	8.00	46	0.45
WTP - Building Construction 2	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 2	Cranes	1	2.00	231	0.29
WTP - Building Construction 2	Forklifts	0	7.00	89	0.20
WTP - Building Construction 2	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 2	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 2	Welders	0	8.00	46	0.45
WTP - Building Construction 5	Cranes	0	8.00	231	0.29
WTP - Building Construction 5	Forklifts	0	7.00	89	0.20
WTP - Building Construction 5	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 5	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 5	Welders	0	8.00	46	0.45
WTP - Building Construction 6	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 6	Bore/Drill Rigs	1	8.00	221	0.50
WTP - Building Construction 6	Cranes	1	2.00	231	0.29
WTP - Building Construction 6	Excavators	1	4.00	158	0.38
WTP - Building Construction 6	Forklifts	0	7.00	89	0.20
WTP - Building Construction 6	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 6	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 6	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 6	Welders	0	8.00	46	0.45
WTP - Building Construction 7	Aerial Lifts	1	4.00	63	0.31

WTP - Building Construction 7	Cranes	1	2.00	231	0.29
WTP - Building Construction 7	Forklifts	0	7.00	89	0.20
WTP - Building Construction 7	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 7	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 7	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 7	Welders	0	8.00	46	0.45
WTP - Architectural Coating	Air Compressors	1	8.00	78	0.48
WTP - Paving	Cement and Mortar Mixers	0	8.00	9	0.56
WTP - Paving	Pavers	1	8.00	130	0.42
WTP - Paving	Paving Equipment	0	8.00	132	0.36
WTP - Paving	Rollers	1	8.00	80	0.38
WTP - Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Well - SM-11 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-11 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-11 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-11 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-11 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-11 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-11 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29

Well - SM-11 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Well - SM-10 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Grading Well Pad	2	12.00	6.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	510.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Demolition	5	14.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

WTP - Site Preparation and Gradi	4	12.00	0.00	84.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 3	2	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 4	2	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 1	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 2	3	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 5	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 6	5	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 7	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Architectural Coating	1	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Paving	2	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.2 Well - SM-10 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	9.5000e-004	0.0000	9.5000e-004			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**8.2900e-003**	**4.2400e-003**	**0.0125**	**9.5000e-004**	**4.2400e-003**	**5.1900e-003**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.3 Well - SM-8 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	9.5000e-004	0.0000	9.5000e-004			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**8.2900e-003**	**4.2400e-003**	**0.0125**	**9.5000e-004**	**4.2400e-003**	**5.1900e-003**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.0486	0.2438	2.7900e-003	0.0629	3.3500e-003	0.0663	0.0173	3.2100e-003	0.0205		302.7939	302.7939	0.0217		303.3372
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1158**	**1.7302**	**0.9094**	**5.6300e-003**	**0.2355**	**7.5200e-003**	**0.2430**	**0.0639**	**7.1600e-003**	**0.0711**		**597.3538**	**597.3538**	**0.0367**		**598.2721**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0348	0.0000	0.0348	3.9800e-003	0.0000	3.9800e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0348**	**0.0656**	**0.1004**	**3.9800e-003**	**0.0609**	**0.0649**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0501	1.6311	0.3792	4.3500e-003	0.0979	5.2200e-003	0.1031	0.0268	4.9900e-003	0.0318		471.0127	471.0127	0.0338		471.8579
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1337**	**2.3127**	**1.0449**	**7.1900e-003**	**0.2705**	**9.3900e-003**	**0.2798**	**0.0735**	**8.9400e-003**	**0.0824**		**765.5726**	**765.5726**	**0.0488**		**766.7928**

3.4 Well - SM-9 Grading Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0136	0.0000	0.0136	1.5500e-003	0.0000	1.5500e-003			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**0.0136**	**4.2400e-003**	**0.0178**	**1.5500e-003**	**4.2400e-003**	**5.7900e-003**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0501	1.6311	0.3792	4.3500e-003	0.0979	5.2200e-003	0.1031	0.0268	4.9900e-003	0.0318		471.0127	471.0127	0.0338		471.8579
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.1337**	**2.3127**	**1.0449**	**7.1900e-003**	**0.2705**	**9.3900e-003**	**0.2798**	**0.0735**	**8.9400e-003**	**0.0824**		**765.5726**	**765.5726**	**0.0488**		**766.7928**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4400e-003	0.2127	0.0615	5.0000e-004	0.0128	1.0200e-003	0.0138	3.6900e-003	9.7000e-004	4.6600e-003		53.8898	53.8898	3.6000e-003		53.9799
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0483**	**0.2417**	**0.3823**	**1.3900e-003**	**0.1022**	**1.7700e-003**	**0.1040**	**0.0274**	**1.6600e-003**	**0.0291**		**142.4834**	**142.4834**	**6.3900e-003**		**142.6433**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3800e-003	0.1938	0.0562	5.0000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		53.4691	53.4691	3.4500e-003		53.5554
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0445**	**0.2199**	**0.3508**	**1.3600e-003**	**0.1022**	**1.1300e-003**	**0.1034**	**0.0274**	**1.0600e-003**	**0.0285**		**139.2492**	**139.2492**	**5.9700e-003**		**139.3986**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2462	2.5950	2.9048	4.7000e-003		0.1254	0.1254		0.1154	0.1154		455.0608	455.0608	0.1472		458.7402
Total	**0.2462**	**2.5950**	**2.9048**	**4.7000e-003**	**0.0000**	**0.1254**	**0.1254**	**0.0000**	**0.1154**	**0.1154**		**455.0608**	**455.0608**	**0.1472**		**458.7402**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0604**	**0.4202**	**0.4806**	**2.0800e-003**	**0.1374**	**1.7200e-003**	**0.1391**	**0.0370**	**1.6100e-003**	**0.0386**		**214.1633**	**214.1633**	**0.0101**		**214.4148**

3.11 Pipeline - Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1049	2.2016	3.3985	4.7000e-003		0.0371	0.0371		0.0346	0.0346	0.0000	455.0608	455.0608	0.1472		458.7402
Total	**0.1049**	**2.2016**	**3.3985**	**4.7000e-003**	**0.0000**	**0.0371**	**0.0371**	**0.0000**	**0.0346**	**0.0346**	**0.0000**	**455.0608**	**455.0608**	**0.1472**		**458.7402**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0604**	**0.4202**	**0.4806**	**2.0800e-003**	**0.1374**	**1.7200e-003**	**0.1391**	**0.0370**	**1.6100e-003**	**0.0386**		**214.1633**	**214.1633**	**0.0101**		**214.4148**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**		**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	3.6000e-004		0.0000	0.0000		0.0000	0.0000	0.0000	25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0000**	**0.0000**	**0.0000**	**3.6000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0208	0.0000	0.0208	2.5800e-003	0.0000	2.5800e-003			0.0000			0.0000
Off-Road	0.5531	5.2689	7.4838	0.0117		0.2677	0.2677		0.2463	0.2463		1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.5531**	**5.2689**	**7.4838**	**0.0117**	**0.0208**	**0.2677**	**0.2885**	**2.5800e-003**	**0.2463**	**0.2489**		**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0726	2.3080	0.5669	6.5200e-003	0.1486	7.1000e-003	0.1557	0.0407	6.8000e-003	0.0475		707.0156	707.0156	0.0506		708.2793
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0572	0.0391	0.4419	1.2900e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		128.6701	128.6701	3.7900e-003		128.7648
Total	**0.1426**	**2.7347**	**1.1211**	**8.8100e-003**	**0.3084**	**9.0000e-003**	**0.3174**	**0.0837**	**8.5800e-003**	**0.0923**		**942.6240**	**942.6240**	**0.0612**		**944.1549**

3.13 Pipeline - Grading - Installation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1000e-003	0.0000	8.1000e-003	1.0000e-003	0.0000	1.0000e-003			0.0000			0.0000
Off-Road	0.1566	5.1271	8.8279	0.0117		0.0191	0.0191		0.0191	0.0191	0.0000	1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.1566**	**5.1271**	**8.8279**	**0.0117**	**8.1000e-003**	**0.0191**	**0.0272**	**1.0000e-003**	**0.0191**	**0.0201**	**0.0000**	**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0726	2.3080	0.5669	6.5200e-003	0.1486	7.1000e-003	0.1557	0.0407	6.8000e-003	0.0475		707.0156	707.0156	0.0506		708.2793
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0572	0.0391	0.4419	1.2900e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		128.6701	128.6701	3.7900e-003		128.7648
Total	**0.1426**	**2.7347**	**1.1211**	**8.8100e-003**	**0.3084**	**9.0000e-003**	**0.3174**	**0.0837**	**8.5800e-003**	**0.0923**		**942.6240**	**942.6240**	**0.0612**		**944.1549**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4659**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.14 Pipeline - Continual Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1639	3.3490	5.3823	7.3200e-003		0.0414	0.0414		0.0389	0.0389	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1940**	**3.3490**	**5.3823**	**7.3200e-003**		**0.0414**	**0.0414**		**0.0389**	**0.0389**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.15 Pipeline - Continual Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6165**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.16 Pipeline - Final Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1639	3.3490	5.3823	7.3200e-003		0.0414	0.0414		0.0389	0.0389	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3447**	**3.3490**	**5.3823**	**7.3200e-003**		**0.0414**	**0.0414**		**0.0389**	**0.0389**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0286	0.0196	0.2210	6.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3351	64.3351	1.8900e-003		64.3824
Total	**0.0414**	**0.4071**	**0.3333**	**1.6500e-003**	**0.0927**	**1.3600e-003**	**0.0940**	**0.0252**	**1.2800e-003**	**0.0265**		**171.2733**	**171.2733**	**8.7900e-003**		**171.4932**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.17 Pipeline - Final Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.3876	0.1123	1.0000e-003	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1600e-003		106.9382	106.9382	6.9000e-003		107.1108
Worker	0.0191	0.0131	0.1473	4.3000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		42.8900	42.8900	1.2600e-003		42.9216
Total	**0.0318**	**0.4006**	**0.2596**	**1.4300e-003**	**0.0703**	**1.1800e-003**	**0.0715**	**0.0192**	**1.1100e-003**	**0.0204**		**149.8283**	**149.8283**	**8.1600e-003**		**150.0324**

3.18 WTP - Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2254	0.0000	0.2254	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**1.6889**	**16.6217**	**13.9605**	**0.0241**	**0.2254**	**0.8379**	**1.0633**	**0.0341**	**0.7829**	**0.8170**		**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0228	0.7057	0.1845	2.1200e-003	0.0490	2.0300e-003	0.0510	0.0134	1.9500e-003	0.0154		230.1087	230.1087	0.0164		230.5183
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0412	0.4749	1.4500e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		144.8397	144.8397	3.9900e-003		144.9394
Total	**0.0855**	**0.7469**	**0.6593**	**3.5700e-003**	**0.2055**	**3.2500e-003**	**0.2087**	**0.0549**	**3.0800e-003**	**0.0580**		**374.9484**	**374.9484**	**0.0204**		**375.4577**

3.18 WTP - Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0879	0.0000	0.0879	0.0133	0.0000	0.0133			0.0000			0.0000
Off-Road	0.4630	8.5434	15.4154	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**0.4630**	**8.5434**	**15.4154**	**0.0241**	**0.0879**	**0.0375**	**0.1254**	**0.0133**	**0.0375**	**0.0508**	**0.0000**	**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0228	0.7057	0.1845	2.1200e-003	0.0490	2.0300e-003	0.0510	0.0134	1.9500e-003	0.0154		230.1087	230.1087	0.0164		230.5183
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0627	0.0412	0.4749	1.4500e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		144.8397	144.8397	3.9900e-003		144.9394
Total	**0.0855**	**0.7469**	**0.6593**	**3.5700e-003**	**0.2055**	**3.2500e-003**	**0.2087**	**0.0549**	**3.0800e-003**	**0.0580**		**374.9484**	**374.9484**	**0.0204**		**375.4577**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0587	0.0000	6.0587	3.3142	0.0000	3.3142			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**1.5403**	**16.9836**	**9.2202**	**0.0206**	**6.0587**	**0.7423**	**6.8010**	**3.3142**	**0.6829**	**3.9971**		**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0341	1.0585	0.2767	3.1800e-003	0.0734	3.0500e-003	0.0765	0.0201	2.9200e-003	0.0231		345.1630	345.1630	0.0246		345.7774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0879**	**1.0939**	**0.6837**	**4.4300e-003**	**0.2076**	**4.1000e-003**	**0.2117**	**0.0557**	**3.8900e-003**	**0.0596**		**469.3114**	**469.3114**	**0.0280**		**470.0112**

3.19 WTP - Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3629	0.0000	2.3629	1.2925	0.0000	1.2925			0.0000			0.0000
Off-Road	0.3694	6.3628	12.1450	0.0206		0.0336	0.0336		0.0336	0.0336	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**0.3694**	**6.3628**	**12.1450**	**0.0206**	**2.3629**	**0.0336**	**2.3965**	**1.2925**	**0.0336**	**1.3262**	**0.0000**	**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0341	1.0585	0.2767	3.1800e-003	0.0734	3.0500e-003	0.0765	0.0201	2.9200e-003	0.0231		345.1630	345.1630	0.0246		345.7774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0879**	**1.0939**	**0.6837**	**4.4300e-003**	**0.2076**	**4.1000e-003**	**0.2117**	**0.0557**	**3.8900e-003**	**0.0596**		**469.3114**	**469.3114**	**0.0280**		**470.0112**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4947	4.6039	5.9139	9.6900e-003		0.2370	0.2370		0.2298	0.2298		924.2735	924.2735	0.1270		927.4492
Total	**0.4947**	**4.6039**	**5.9139**	**9.6900e-003**		**0.2370**	**0.2370**		**0.2298**	**0.2298**		**924.2735**	**924.2735**	**0.1270**		**927.4492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.20 WTP - Building Construction 3 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1902	3.7007	6.3984	9.6900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	924.2735	924.2735	0.1270		927.4492
Total	**0.1902**	**3.7007**	**6.3984**	**9.6900e-003**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**924.2735**	**924.2735**	**0.1270**		**927.4492**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2051	2.5264	2.7615	4.8900e-003		0.0951	0.0951		0.0875	0.0875		473.4621	473.4621	0.1531		477.2902
Total	**0.2051**	**2.5264**	**2.7615**	**4.8900e-003**		**0.0951**	**0.0951**		**0.0875**	**0.0875**		**473.4621**	**473.4621**	**0.1531**		**477.2902**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	**0.0776**	**0.2313**	**0.5958**	**2.1600e-003**	**0.1916**	**1.7600e-003**	**0.1934**	**0.0511**	**1.6300e-003**	**0.0528**		**218.5252**	**218.5252**	**7.8900e-003**		**218.7224**

3.21 WTP - Building Construction 4 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1012	1.8908	3.3783	4.8900e-003		8.0100e-003	8.0100e-003		8.0100e-003	8.0100e-003	0.0000	473.4621	473.4621	0.1531		477.2902
Total	**0.1012**	**1.8908**	**3.3783**	**4.8900e-003**		**8.0100e-003**	**8.0100e-003**		**8.0100e-003**	**8.0100e-003**	**0.0000**	**473.4621**	**473.4621**	**0.1531**		**477.2902**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		165.5311	165.5311	4.5600e-003		165.6451
Total	**0.0776**	**0.2313**	**0.5958**	**2.1600e-003**	**0.1916**	**1.7600e-003**	**0.1934**	**0.0511**	**1.6300e-003**	**0.0528**		**218.5252**	**218.5252**	**7.8900e-003**		**218.7224**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6447	6.1774	6.9638	0.0119		0.3154	0.3154		0.3019	0.3019		1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.6447**	**6.1774**	**6.9638**	**0.0119**		**0.3154**	**0.3154**		**0.3019**	**0.3019**		**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0448	0.0295	0.3392	1.0400e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		103.4570	103.4570	2.8500e-003		103.5282
Total	**0.0508**	**0.2136**	**0.3923**	**1.5400e-003**	**0.1246**	**1.2300e-003**	**0.1258**	**0.0333**	**1.1500e-003**	**0.0345**		**156.4510**	**156.4510**	**6.1800e-003**		**156.6055**

3.22 WTP - Building Construction 1 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2311	4.4177	7.7472	0.0119		0.0175	0.0175		0.0175	0.0175	0.0000	1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.2311**	**4.4177**	**7.7472**	**0.0119**		**0.0175**	**0.0175**		**0.0175**	**0.0175**	**0.0000**	**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0448	0.0295	0.3392	1.0400e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		103.4570	103.4570	2.8500e-003		103.5282
Total	**0.0508**	**0.2136**	**0.3923**	**1.5400e-003**	**0.1246**	**1.2300e-003**	**0.1258**	**0.0333**	**1.1500e-003**	**0.0345**		**156.4510**	**156.4510**	**6.1800e-003**		**156.6055**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.23 WTP - Building Construction 2 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1219	2.3627	4.0155	5.7300e-003		0.0273	0.0273		0.0273	0.0273	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.1219**	**2.3627**	**4.0155**	**5.7300e-003**		**0.0273**	**0.0273**		**0.0273**	**0.0273**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	1.4803	2.2884	3.4500e-003		0.0516	0.0516		0.0475	0.0475		333.7545	333.7545	0.1079		336.4531
Total	**0.1119**	**1.4803**	**2.2884**	**3.4500e-003**		**0.0516**	**0.0516**		**0.0475**	**0.0475**		**333.7545**	**333.7545**	**0.1079**		**336.4531**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.24 WTP - Building Construction 5 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0776	1.5097	2.6103	3.4500e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	333.7545	333.7545	0.1079		336.4531
Total	**0.0776**	**1.5097**	**2.6103**	**3.4500e-003**		**5.6400e-003**	**5.6400e-003**		**5.6400e-003**	**5.6400e-003**	**0.0000**	**333.7545**	**333.7545**	**0.1079**		**336.4531**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.9614	6.9772	0.0178		0.2160	0.2160		0.1987	0.1987		1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.5485**	**5.9614**	**6.9772**	**0.0178**		**0.2160**	**0.2160**		**0.1987**	**0.1987**		**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.1075	0.0707	0.8140	2.4900e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		248.2967	248.2967	6.8400e-003		248.4676
Total	**0.1135**	**0.2549**	**0.8672**	**2.9900e-003**	**0.2811**	**2.4600e-003**	**0.2835**	**0.0748**	**2.2700e-003**	**0.0771**		**301.2907**	**301.2907**	**0.0102**		**301.5449**

3.25 WTP - Building Construction 6 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3096	6.0151	11.0416	0.0178		0.0471	0.0471		0.0471	0.0471	0.0000	1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.3096**	**6.0151**	**11.0416**	**0.0178**		**0.0471**	**0.0471**		**0.0471**	**0.0471**	**0.0000**	**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.1075	0.0707	0.8140	2.4900e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		248.2967	248.2967	6.8400e-003		248.4676
Total	**0.1135**	**0.2549**	**0.8672**	**2.9900e-003**	**0.2811**	**2.4600e-003**	**0.2835**	**0.0748**	**2.2700e-003**	**0.0771**		**301.2907**	**301.2907**	**0.0102**		**301.5449**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.26 WTP - Building Construction 7 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1219	2.3627	4.0155	5.7300e-003		0.0273	0.0273		0.0273	0.0273	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.1219**	**2.3627**	**4.0155**	**5.7300e-003**		**0.0273**	**0.0273**		**0.0273**	**0.0273**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0358	0.0236	0.2713	8.3000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		82.7656	82.7656	2.2800e-003		82.8225
Total	**0.0418**	**0.2077**	**0.3245**	**1.3300e-003**	**0.1022**	**1.0600e-003**	**0.1033**	**0.0274**	**9.8000e-004**	**0.0284**		**135.7596**	**135.7596**	**5.6100e-003**		**135.8999**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**1.6246**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.27 WTP - Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0726	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**1.4245**	**1.4131**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e-003	0.1842	0.0532	5.0000e-004	0.0128	3.6000e-004	0.0132	3.6900e-003	3.4000e-004	4.0300e-003		52.9941	52.9941	3.3300e-003		53.0773
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0597**	**0.2195**	**0.4602**	**1.7500e-003**	**0.1469**	**1.4100e-003**	**0.1483**	**0.0393**	**1.3100e-003**	**0.0406**		**177.1424**	**177.1424**	**6.7500e-003**		**177.3111**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	**1.6074**	**1.7373**	**2.4148**	**3.9600e-003**		**0.0944**	**0.0944**		**0.0944**	**0.0944**		**375.2641**	**375.2641**	**0.0225**		**375.8253**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0551**	**0.1715**	**0.4214**	**1.6800e-003**	**0.1469**	**1.1900e-003**	**0.1481**	**0.0393**	**1.1000e-003**	**0.0404**		**170.9547**	**170.9547**	**6.0100e-003**		**171.1050**

3.27 WTP - Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0726	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0225		375.8253
Total	**1.4245**	**1.4131**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0225**		**375.8253**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0551**	**0.1715**	**0.4214**	**1.6800e-003**	**0.1469**	**1.1900e-003**	**0.1481**	**0.0393**	**1.1000e-003**	**0.0404**		**170.9547**	**170.9547**	**6.0100e-003**		**171.1050**

3.28 WTP - Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3732	3.8248	4.7443	7.3300e-003		0.1992	0.1992		0.1833	0.1833		709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4518**	**3.8248**	**4.7443**	**7.3300e-003**		**0.1992**	**0.1992**		**0.1833**	**0.1833**		**709.3618**	**709.3618**	**0.2294**		**715.0973**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003		105.9881	105.9881	6.6600e-003		106.1546
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0657**	**0.4037**	**0.5133**	**2.2400e-003**	**0.1597**	**1.7700e-003**	**0.1615**	**0.0429**	**1.6600e-003**	**0.0446**		**230.1364**	**230.1364**	**0.0101**		**230.3884**

3.28 WTP - Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1540	3.2249	5.3771	7.3300e-003		0.0350	0.0350		0.0330	0.0330	0.0000	709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2326**	**3.2249**	**5.3771**	**7.3300e-003**		**0.0350**	**0.0350**		**0.0330**	**0.0330**	**0.0000**	**709.3618**	**709.3618**	**0.2294**		**715.0973**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.3683	0.1063	9.9000e-004	0.0256	7.2000e-004	0.0263	7.3700e-003	6.9000e-004	8.0600e-003		105.9881	105.9881	6.6600e-003		106.1546
Worker	0.0537	0.0354	0.4070	1.2500e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		124.1483	124.1483	3.4200e-003		124.2338
Total	**0.0657**	**0.4037**	**0.5133**	**2.2400e-003**	**0.1597**	**1.7700e-003**	**0.1615**	**0.0429**	**1.6600e-003**	**0.0446**		**230.1364**	**230.1364**	**0.0101**		**230.3884**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1237	0.9584	1.7831	2.9400e-003		0.0451	0.0451		0.0420	0.0420		275.3110	275.3110	0.0835		277.3983
Total	**0.1237**	**0.9584**	**1.7831**	**2.9400e-003**	**0.0213**	**0.0451**	**0.0663**	**2.4300e-003**	**0.0420**	**0.0445**		**275.3110**	**275.3110**	**0.0835**		**277.3983**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0192	0.5960	0.2133	2.6000e-003	0.0630	1.1000e-003	0.0641	0.0173	1.0500e-003	0.0183		283.5498	283.5498	0.0195		284.0373
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116		154.0448	154.0448	8.8000e-003		154.2647
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0832**	**1.0464**	**0.7292**	**5.2400e-003**	**0.2355**	**2.6300e-003**	**0.2381**	**0.0639**	**2.4800e-003**	**0.0664**		**557.2010**	**557.2010**	**0.0314**		**557.9854**

3.29 Well - SM-11 Grading - Well Pad - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	9.5000e-004	0.0000	9.5000e-004			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3110	275.3110	0.0835		277.3983
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**8.2900e-003**	**4.2400e-003**	**0.0125**	**9.5000e-004**	**4.2400e-003**	**5.1900e-003**	**0.0000**	**275.3110**	**275.3110**	**0.0835**		**277.3983**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0192	0.5960	0.2133	2.6000e-003	0.0630	1.1000e-003	0.0641	0.0173	1.0500e-003	0.0183		283.5498	283.5498	0.0195		284.0373
Vendor	0.0134	0.4184	0.1417	1.4400e-003	0.0384	5.1000e-004	0.0389	0.0111	4.9000e-004	0.0116		154.0448	154.0448	8.8000e-003		154.2647
Worker	0.0506	0.0320	0.3741	1.2000e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		119.6065	119.6065	3.0800e-003		119.6834
Total	**0.0832**	**1.0464**	**0.7292**	**5.2400e-003**	**0.2355**	**2.6300e-003**	**0.2381**	**0.0639**	**2.4800e-003**	**0.0664**		**557.2010**	**557.2010**	**0.0314**		**557.9854**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1212	1.0293	1.8830	3.7700e-003		0.0462	0.0462		0.0425	0.0425		364.4782	364.4782	0.1179		367.4252
Total	**0.1212**	**1.0293**	**1.8830**	**3.7700e-003**		**0.0462**	**0.0462**		**0.0425**	**0.0425**		**364.4782**	**364.4782**	**0.1179**		**367.4252**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7700e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.4782	364.4782	0.1179		367.4252
Total	**0.0513**	**1.4526**	**2.5924**	**3.7700e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.4782**	**364.4782**	**0.1179**		**367.4252**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0943	0.7743	1.6289	2.5800e-003		0.0379	0.0379		0.0349	0.0349		250.0528	250.0528	0.0809		252.0746
Total	**0.0943**	**0.7743**	**1.6289**	**2.5800e-003**		**0.0379**	**0.0379**		**0.0349**	**0.0349**		**250.0528**	**250.0528**	**0.0809**		**252.0746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0528	250.0528	0.0809		252.0746
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0528**	**250.0528**	**0.0809**		**252.0746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4500e-003	0.1395	0.0472	4.8000e-004	0.0128	1.7000e-004	0.0130	3.6900e-003	1.6000e-004	3.8500e-003		51.3483	51.3483	2.9300e-003		51.4216
Worker	0.0338	0.0213	0.2494	8.0000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		79.7377	79.7377	2.0500e-003		79.7890
Total	**0.0382**	**0.1608**	**0.2966**	**1.2800e-003**	**0.1022**	**8.5000e-004**	**0.1031**	**0.0274**	**7.9000e-004**	**0.0282**		**131.0859**	**131.0859**	**4.9800e-003**		**131.2105**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932
Unmitigated	7.8000e-003	0.2198	0.0850	1.2000e-003	0.0370	4.3000e-004	0.0374	0.0106	4.1000e-004	0.0110		128.7513	128.7513	5.6800e-003		128.8932

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Industrial Park	2.00	0.00	0.00	10,400	10,400
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	2.00	0.00	0.00	10,400	10,400

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	20.00	20.00	20.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
NaturalGas Unmitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	520.685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.520685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Unmitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Mitigated

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.50	1000sqft	0.24	10,500.00	0
Industrial Park	1.00	1000sqft	0.00	1,000.00	0
User Defined Industrial	0.74	User Defined Unit	0.74	32,400.00	0
User Defined Industrial	0.63	User Defined Unit	0.63	27,300.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	30,056.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.
Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-10 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-11 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-8 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-9 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - WTP - Architectural Coating: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 1: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 2: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 3: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 4: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 5: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 6: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 7: Applicant-provided data.

Off-road Equipment - WTP - Demolition: Applicant-provided data.

Off-road Equipment - WTP - Paving: Applicant-provided data.

Off-road Equipment - WTP - Site Preparation and Grading: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - Demolition: WTP - Demolition. 5,725 SF total.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of new buildings and asphalt surface striping.

Vehicle Trips - No net new worker operational trips anticipated. Minimal, infrequent net new truck deliveries anticipated (maximum 2 one-way trips per day).

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Road Dust - Operational mobile source emissions not estimated.

Woodstoves - No hearths.

Consumer Products - CalEEMod default values.

Area Coating - Operational architectural coating for 10,500 SF of building (conservative as some surfaces would not require coating).

Landscape Equipment - No increase in landscape maintenance activity from existing conditions.

Energy Use - CalEEMod default values for General Light Industry.

Water And Wastewater - CalEEMod default values for water use. 100% aerobic.

Solid Waste - CalEEMod default values.

Construction Off-road Equipment Mitigation - Off-road Equipment: All equipment over 50 HP assumed to meet Tier 4 Interim standards. Water Exposed Area, Frequency: 3 times per day.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No area mitigation.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water mitigation.

Waste Mitigation - Percent Reduction in Waste Disposed: 50%. Waste diversion consistent with Assembly Bill 939.

Operational Off-Road Equipment - No operational offroad equipment.

Fleet Mix - Industrial Park: 50% MHDT/50% HHDT.

Stationary Sources - User Defined - No operational stationary sources.

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Mitigated - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	15,750.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	35600	5250
tblAreaCoating	Area_Nonresidential_Interior	106800	15750
tblAreaCoating	Area_Parking	1803	1944
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	10.00	72.00
tblConstructionPhase	NumDays	220.00	133.00
tblConstructionPhase	NumDays	220.00	143.00
tblConstructionPhase	NumDays	220.00	67.00
tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	220.00	31.00

tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	220.00	67.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	25.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	220.00	15.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	6.00	60.00
tblConstructionPhase	NumDays	6.00	60.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	3.00	5.00
tblEnergyUse	LightingElect	3.77	0.00
tblEnergyUse	NT24E	4.62	0.00
tblEnergyUse	NT24NG	0.39	0.00
tblEnergyUse	T24E	4.60	0.00
tblEnergyUse	T24NG	10.02	0.00
tblFleetMix	HHD	0.03	0.50

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.2530e-003	0.00
tblFleetMix	MCY	5.2170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.5000e-004	0.00
tblFleetMix	MHD	0.02	0.50
tblFleetMix	OBUS	2.5600e-003	0.00
tblFleetMix	SBUS	6.9600e-004	0.00
tblFleetMix	UBUS	2.0710e-003	0.00
tblGrading	AcresOfGrading	0.00	0.17
tblGrading	AcresOfGrading	0.00	0.17
tblGrading	AcresOfGrading	0.00	0.28
tblGrading	AcresOfGrading	0.00	0.74
tblGrading	AcresOfGrading	10.00	0.69
tblGrading	AcresOfGrading	0.00	0.17
tblGrading	MaterialExported	0.00	285.00
tblGrading	MaterialExported	0.00	285.00
tblGrading	MaterialExported	0.00	450.00
tblGrading	MaterialExported	0.00	4,075.00
tblGrading	MaterialExported	0.00	285.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	0.00	27,300.00
tblLandUse	LandUseSquareFeet	0.00	32,400.00
tblLandUse	LotAcreage	0.02	0.00

tblLandUse	LotAcreage	0.00	0.63
tblLandUse	LotAcreage	0.00	0.74
tblOffRoadEquipment	HorsePower	132.00	320.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00

tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripNumber	509.00	510.00
tblTripsAndVMT	HaulingTripNumber	26.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	84.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
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tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	VendorTripNumber	17.00	2.00
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tblTripsAndVMT	VendorTripNumber	17.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	10.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	16.00
tblTripsAndVMT	WorkerTripNumber	43.00	10.00
tblTripsAndVMT	WorkerTripNumber	43.00	12.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00

tblTripsAndVMT	WorkerTripNumber	43.00	24.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	9.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
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tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblTripsAndVMT	WorkerTripNumber	43.00	8.00
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tblTripsAndVMT	WorkerTripNumber	43.00	8.00
tblVehicleTrips	CC_TL	8.40	20.00
tblVehicleTrips	CNW_TL	6.90	20.00
tblVehicleTrips	CW_TL	16.60	20.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	6.83	2.00
tblWater	AerobicPercent	87.46	100.00

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.7971	9.8843	8.2579	0.0279	0.8187	0.2209	1.0396	0.2101	0.2057	0.4158	0.0000	2,843.4619	2,843.4619	0.3720	0.0000	2,852.6827
2021	9.0398	13.8824	14.4112	0.0331	0.5625	0.5304	1.0929	0.1499	0.4889	0.6388	0.0000	3,317.2048	3,317.2048	0.6801	0.0000	3,334.2065
2022	3.3892	35.4188	31.5485	0.0655	6.6971	1.5875	8.2846	3.4589	1.4727	4.9316	0.0000	6,370.5262	6,370.5262	1.3631	0.0000	6,404.6024
2023	1.6569	1.9994	2.8689	8.3400e-003	0.2567	0.0956	0.3044	0.0663	0.0955	0.1348	0.0000	849.2366	849.2366	0.1228	0.0000	852.0878
Maximum	**9.0398**	**35.4188**	**31.5485**	**0.0655**	**6.6971**	**1.5875**	**8.2846**	**3.4589**	**1.4727**	**4.9316**	**0.0000**	**6,370.5262**	**6,370.5262**	**1.3631**	**0.0000**	**6,404.6024**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.4368	9.1281	8.9953	0.0279	0.7716	0.0368	0.8084	0.2047	0.0357	0.2404	0.0000	2,843.4619	2,843.4619	0.3720	0.0000	2,852.6827
2021	9.0398	12.3862	16.1982	0.0331	0.5498	0.0730	0.6228	0.1483	0.0699	0.2182	0.0000	3,317.2048	3,317.2048	0.6801	0.0000	3,334.2065
2022	1.9304	21.2228	38.5265	0.0655	2.8638	0.1286	2.9422	1.4165	0.1280	1.4945	0.0000	6,370.5262	6,370.5262	1.3631	0.0000	6,404.6024
2023	1.4740	2.1794	2.9096	8.3400e-003	0.2438	7.0300e-003	0.2506	0.0648	6.9700e-003	0.0715	0.0000	849.2366	849.2366	0.1228	0.0000	852.0878
Maximum	**9.0398**	**21.2228**	**38.5265**	**0.0655**	**2.8638**	**0.1286**	**2.9422**	**1.4165**	**0.1280**	**1.4945**	**0.0000**	**6,370.5262**	**6,370.5262**	**1.3631**	**0.0000**	**6,404.6024**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.45**	**26.59**	**-16.72**	**0.00**	**46.86**	**89.92**	**56.87**	**52.79**	**89.37**	**66.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076
Total	**1.4629**	**0.2683**	**0.1259**	**1.5300e-003**	**0.0370**	**4.3000e-003**	**0.0413**	**0.0106**	**4.2800e-003**	**0.0149**		**191.4295**	**191.4295**	**6.7000e-003**	**1.1200e-003**	**191.9318**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Energy	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Mobile	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076
Total	**1.4629**	**0.2683**	**0.1259**	**1.5300e-003**	**0.0370**	**4.3000e-003**	**0.0413**	**0.0106**	**4.2800e-003**	**0.0149**		**191.4295**	**191.4295**	**6.7000e-003**	**1.1200e-003**	**191.9318**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Well - SM-10 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
2	Well - SM-8 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
3	Well - SM-9 Grading Well Pad	Grading	11/27/2020	12/10/2020	5	10	
4	Well - SM-10 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
5	Well - SM-8 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
6	Well - SM-9 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25	
7	Well - SM-10 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
8	Well - SM-8 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
9	Well - SM-9 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15	
10	Pipeline - Site Preparation	Site Preparation	2/28/2021	3/5/2021	5	5	
11	Pipeline - Grading - Slurry Backfill	Grading	3/6/2021	5/28/2021	5	60	
12	Pipeline - Grading - Installation	Grading	3/6/2021	5/28/2021	5	60	
13	Pipeline - Continual Paving	Paving	3/6/2021	5/28/2021	5	60	
14	Pipeline - Continual Pavement Striping	Architectural Coating	3/6/2021	5/28/2021	5	60	
15	Pipeline - Final Paving	Paving	5/29/2021	6/11/2021	5	10	
16	Pipeline - Final Pavement Striping	Architectural Coating	6/14/2021	6/14/2021	5	1	
17	WTP - Demolition	Demolition	1/21/2022	2/24/2022	5	25	

18	WTP - Site Preparation and Grading	Grading	2/1/2022	2/28/2022	5	20	
19	WTP - Building Construction 3	Building Construction	3/1/2022	9/1/2022	5	133	
20	WTP - Building Construction 4	Building Construction	3/1/2022	9/15/2022	5	143	
21	WTP - Building Construction 1	Building Construction	3/1/2022	6/1/2022	5	67	
22	WTP - Building Construction 2	Building Construction	3/1/2022	7/1/2022	5	89	
23	WTP - Building Construction 5	Building Construction	4/1/2022	5/13/2022	5	31	
24	WTP - Building Construction 6	Building Construction	5/1/2022	9/1/2022	5	89	
25	WTP - Building Construction 7	Building Construction	8/1/2022	11/1/2022	5	67	
26	WTP - Architectural Coating	Architectural Coating	10/15/2022	1/24/2023	5	72	
27	WTP - Paving	Paving	11/1/2022	12/1/2022	5	23	
28	Well - SM-11 Grading - Well Pad	Grading	7/1/2023	7/14/2023	5	10	
29	Well - SM-11 Building Construction - Well Equipping	Building Construction	7/15/2023	8/18/2023	5	25	
30	Well - SM-11 Building Construction - Artistic Fencing	Building Construction	8/19/2023	9/8/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,944 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Well - SM-10 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-10 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-10 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-10 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40

Well - SM-10 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-8 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-8 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-8 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-8 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-8 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-9 Grading Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-9 Grading Well Pad	Excavators	1	4.00	158	0.38
Well - SM-9 Grading Well Pad	Graders	0	8.00	187	0.41
Well - SM-9 Grading Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-9 Grading Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-10 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-10 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-8 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74

Well - SM-8 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-8 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-9 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-10 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Artistic Fencing	Excavators	0	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20

Well - SM-8 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48
Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36

Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48
WTP - Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
WTP - Demolition	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
WTP - Site Preparation and Grading	Graders	1	8.00	187	0.41
WTP - Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Site Preparation and Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WTP - Building Construction 3	Cranes	0	8.00	231	0.29
WTP - Building Construction 3	Forklifts	0	7.00	89	0.20
WTP - Building Construction 3	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 3	Welders	0	8.00	46	0.45
WTP - Building Construction 4	Cranes	1	2.00	231	0.29
WTP - Building Construction 4	Forklifts	0	7.00	89	0.20
WTP - Building Construction 4	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 4	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 4	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 4	Welders	0	8.00	46	0.45
WTP - Building Construction 1	Cranes	1	2.00	231	0.29

WTP - Building Construction 1	Forklifts	1	4.00	89	0.20
WTP - Building Construction 1	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 1	Welders	0	8.00	46	0.45
WTP - Building Construction 2	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 2	Cranes	1	2.00	231	0.29
WTP - Building Construction 2	Forklifts	0	7.00	89	0.20
WTP - Building Construction 2	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 2	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 2	Welders	0	8.00	46	0.45
WTP - Building Construction 5	Cranes	0	8.00	231	0.29
WTP - Building Construction 5	Forklifts	0	7.00	89	0.20
WTP - Building Construction 5	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 5	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 5	Welders	0	8.00	46	0.45
WTP - Building Construction 6	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 6	Bore/Drill Rigs	1	8.00	221	0.50
WTP - Building Construction 6	Cranes	1	2.00	231	0.29
WTP - Building Construction 6	Excavators	1	4.00	158	0.38
WTP - Building Construction 6	Forklifts	0	7.00	89	0.20
WTP - Building Construction 6	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 6	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 6	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 6	Welders	0	8.00	46	0.45
WTP - Building Construction 7	Aerial Lifts	1	4.00	63	0.31

WTP - Building Construction 7	Cranes	1	2.00	231	0.29
WTP - Building Construction 7	Forklifts	0	7.00	89	0.20
WTP - Building Construction 7	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 7	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 7	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 7	Welders	0	8.00	46	0.45
WTP - Architectural Coating	Air Compressors	1	8.00	78	0.48
WTP - Paving	Cement and Mortar Mixers	0	8.00	9	0.56
WTP - Paving	Pavers	1	8.00	130	0.42
WTP - Paving	Paving Equipment	0	8.00	132	0.36
WTP - Paving	Rollers	1	8.00	80	0.38
WTP - Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Well - SM-11 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-11 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-11 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-11 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-11 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-11 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-11 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29

Well - SM-11 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Well - SM-10 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Grading Well Pad	2	12.00	6.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	510.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Demolition	5	14.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

WTP - Site Preparation and Gradi	4	12.00	0.00	84.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 3	2	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 4	2	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 1	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 2	3	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 5	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 6	5	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 7	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Architectural Coating	1	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Paving	2	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.2 Well - SM-10 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	9.5000e-004	0.0000	9.5000e-004			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**8.2900e-003**	**4.2400e-003**	**0.0125**	**9.5000e-004**	**4.2400e-003**	**5.1900e-003**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0213**	**0.0656**	**0.0868**	**2.4300e-003**	**0.0609**	**0.0633**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.3 Well - SM-8 Grading - Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	9.5000e-004	0.0000	9.5000e-004			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**8.2900e-003**	**4.2400e-003**	**0.0125**	**9.5000e-004**	**4.2400e-003**	**5.1900e-003**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0315	1.0352	0.2294	2.8400e-003	0.0629	3.3000e-003	0.0663	0.0173	3.1600e-003	0.0204		308.0995	308.0995	0.0210		308.6237
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1080**	**1.7127**	**0.9220**	**5.8200e-003**	**0.2355**	**7.4200e-003**	**0.2429**	**0.0639**	**7.0600e-003**	**0.0710**		**615.4478**	**615.4478**	**0.0356**		**616.3369**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0348	0.0000	0.0348	3.9800e-003	0.0000	3.9800e-003			0.0000			0.0000
Off-Road	0.1519	1.3904	1.7881	2.9400e-003		0.0656	0.0656		0.0609	0.0609		275.3174	275.3174	0.0835		277.4048
Total	**0.1519**	**1.3904**	**1.7881**	**2.9400e-003**	**0.0348**	**0.0656**	**0.1004**	**3.9800e-003**	**0.0609**	**0.0649**		**275.3174**	**275.3174**	**0.0835**		**277.4048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0489	1.6102	0.3568	4.4200e-003	0.0979	5.1400e-003	0.1031	0.0268	4.9200e-003	0.0318		479.2658	479.2658	0.0326		480.0814
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1255**	**2.2878**	**1.0494**	**7.4000e-003**	**0.2705**	**9.2600e-003**	**0.2797**	**0.0735**	**8.8200e-003**	**0.0823**		**786.6142**	**786.6142**	**0.0472**		**787.7945**

3.4 Well - SM-9 Grading Well Pad - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0136	0.0000	0.0136	1.5500e-003	0.0000	1.5500e-003			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3174	275.3174	0.0835		277.4048
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**0.0136**	**4.2400e-003**	**0.0178**	**1.5500e-003**	**4.2400e-003**	**5.7900e-003**	**0.0000**	**275.3174**	**275.3174**	**0.0835**		**277.4048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0489	1.6102	0.3568	4.4200e-003	0.0979	5.1400e-003	0.1031	0.0268	4.9200e-003	0.0318		479.2658	479.2658	0.0326		480.0814
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.1255**	**2.2878**	**1.0494**	**7.4000e-003**	**0.2705**	**9.2600e-003**	**0.2797**	**0.0735**	**8.8200e-003**	**0.0823**		**786.6142**	**786.6142**	**0.0472**		**787.7945**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1572	1.6466	1.8940	3.7600e-003		0.0711	0.0711		0.0654	0.0654		363.7851	363.7851	0.1177		366.7265
Total	**0.1572**	**1.6466**	**1.8940**	**3.7600e-003**		**0.0711**	**0.0711**		**0.0654**	**0.0654**		**363.7851**	**363.7851**	**0.1177**		**366.7265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	363.7851	363.7851	0.1177		366.7265
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**363.7851**	**363.7851**	**0.1177**		**366.7265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.1100e-003	0.2127	0.0557	5.2000e-004	0.0128	1.0000e-003	0.0138	3.6900e-003	9.6000e-004	4.6400e-003		55.4049	55.4049	3.3800e-003		55.4895
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0439**	**0.2389**	**0.4060**	**1.4600e-003**	**0.1022**	**1.7500e-003**	**0.1040**	**0.0274**	**1.6500e-003**	**0.0290**		**149.4940**	**149.4940**	**6.3500e-003**		**149.6527**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1469	1.4546	1.8952	3.7600e-003		0.0637	0.0637		0.0586	0.0586		364.1038	364.1038	0.1178		367.0478
Total	**0.1469**	**1.4546**	**1.8952**	**3.7600e-003**		**0.0637**	**0.0637**		**0.0586**	**0.0586**		**364.1038**	**364.1038**	**0.1178**		**367.0478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7600e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.1038	364.1038	0.1178		367.0478
Total	**0.0513**	**1.4526**	**2.5924**	**3.7600e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.1038**	**364.1038**	**0.1178**		**367.0478**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1146	1.0767	1.6359	2.5800e-003		0.0522	0.0522		0.0480	0.0480		250.0960	250.0960	0.0809		252.1181
Total	**0.1146**	**1.0767**	**1.6359**	**2.5800e-003**		**0.0522**	**0.0522**		**0.0480**	**0.0480**		**250.0960**	**250.0960**	**0.0809**		**252.1181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0960	250.0960	0.0809		252.1181
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0960**	**250.0960**	**0.0809**		**252.1181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.0800e-003	0.1942	0.0508	5.1000e-004	0.0128	4.0000e-004	0.0132	3.6900e-003	3.8000e-004	4.0700e-003		54.9761	54.9761	3.2400e-003		55.0571
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0404**	**0.2178**	**0.3730**	**1.4200e-003**	**0.1022**	**1.1200e-003**	**0.1033**	**0.0274**	**1.0500e-003**	**0.0285**		**146.0777**	**146.0777**	**5.9200e-003**		**146.2258**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2462	2.5950	2.9048	4.7000e-003		0.1254	0.1254		0.1154	0.1154		455.0608	455.0608	0.1472		458.7402
Total	**0.2462**	**2.5950**	**2.9048**	**4.7000e-003**	**0.0000**	**0.1254**	**0.1254**	**0.0000**	**0.1154**	**0.1154**		**455.0608**	**455.0608**	**0.1472**		**458.7402**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0550**	**0.4178**	**0.5043**	**2.1700e-003**	**0.1374**	**1.6900e-003**	**0.1391**	**0.0370**	**1.5900e-003**	**0.0386**		**223.8292**	**223.8292**	**9.8400e-003**		**224.0751**

3.11 Pipeline - Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1049	2.2016	3.3985	4.7000e-003		0.0371	0.0371		0.0346	0.0346	0.0000	455.0608	455.0608	0.1472		458.7402
Total	**0.1049**	**2.2016**	**3.3985**	**4.7000e-003**	**0.0000**	**0.0371**	**0.0371**	**0.0000**	**0.0346**	**0.0346**	**0.0000**	**455.0608**	**455.0608**	**0.1472**		**458.7402**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0550**	**0.4178**	**0.5043**	**2.1700e-003**	**0.1374**	**1.6900e-003**	**0.1391**	**0.0370**	**1.5900e-003**	**0.0386**		**223.8292**	**223.8292**	**9.8400e-003**		**224.0751**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0294	0.1841	0.1542	3.6000e-004		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003		25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0294**	**0.1841**	**0.1542**	**3.6000e-004**	**0.0000**	**7.1600e-003**	**7.1600e-003**	**0.0000**	**7.1600e-003**	**7.1600e-003**		**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	3.6000e-004		0.0000	0.0000		0.0000	0.0000	0.0000	25.2582	25.2582	2.6200e-003		25.3237
Total	**0.0000**	**0.0000**	**0.0000**	**3.6000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**25.2582**	**25.2582**	**2.6200e-003**		**25.3237**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0208	0.0000	0.0208	2.5800e-003	0.0000	2.5800e-003			0.0000			0.0000
Off-Road	0.5531	5.2689	7.4838	0.0117		0.2677	0.2677		0.2463	0.2463		1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.5531**	**5.2689**	**7.4838**	**0.0117**	**0.0208**	**0.2677**	**0.2885**	**2.5800e-003**	**0.2463**	**0.2489**		**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0709	2.2801	0.5346	6.6300e-003	0.1486	7.0000e-003	0.1556	0.0407	6.7000e-003	0.0474		719.4793	719.4793	0.0488		720.7000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0514	0.0354	0.4833	1.3700e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		136.6524	136.6524	4.0300e-003		136.7530
Total	**0.1345**	**2.7038**	**1.1195**	**9.0300e-003**	**0.3084**	**8.8700e-003**	**0.3172**	**0.0837**	**8.4600e-003**	**0.0921**		**966.0840**	**966.0840**	**0.0593**		**967.5672**

3.13 Pipeline - Grading - Installation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1000e-003	0.0000	8.1000e-003	1.0000e-003	0.0000	1.0000e-003			0.0000			0.0000
Off-Road	0.1566	5.1271	8.8279	0.0117		0.0191	0.0191		0.0191	0.0191	0.0000	1,127.4284	1,127.4284	0.3646		1,136.5442
Total	**0.1566**	**5.1271**	**8.8279**	**0.0117**	**8.1000e-003**	**0.0191**	**0.0272**	**1.0000e-003**	**0.0191**	**0.0201**	**0.0000**	**1,127.4284**	**1,127.4284**	**0.3646**		**1,136.5442**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0709	2.2801	0.5346	6.6300e-003	0.1486	7.0000e-003	0.1556	0.0407	6.7000e-003	0.0474		719.4793	719.4793	0.0488		720.7000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0514	0.0354	0.4833	1.3700e-003	0.1341	1.0800e-003	0.1352	0.0356	1.0000e-003	0.0366		136.6524	136.6524	4.0300e-003		136.7530
Total	**0.1345**	**2.7038**	**1.1195**	**9.0300e-003**	**0.3084**	**8.8700e-003**	**0.3172**	**0.0837**	**8.4600e-003**	**0.0921**		**966.0840**	**966.0840**	**0.0593**		**967.5672**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4659**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.14 Pipeline - Continual Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1639	3.3490	5.3823	7.3200e-003		0.0414	0.0414		0.0389	0.0389	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.0301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1940**	**3.3490**	**5.3823**	**7.3200e-003**		**0.0414**	**0.0414**		**0.0389**	**0.0389**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.15 Pipeline - Continual Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.1502**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4357	4.5193	4.7852	7.3200e-003		0.2431	0.2431		0.2236	0.2236		709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6165**	**4.5193**	**4.7852**	**7.3200e-003**		**0.2431**	**0.2431**		**0.2236**	**0.2236**		**709.1497**	**709.1497**	**0.2294**		**714.8836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.16 Pipeline - Final Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1639	3.3490	5.3823	7.3200e-003		0.0414	0.0414		0.0389	0.0389	0.0000	709.1497	709.1497	0.2294		714.8836
Paving	0.1808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3447**	**3.3490**	**5.3823**	**7.3200e-003**		**0.0414**	**0.0414**		**0.0389**	**0.0389**	**0.0000**	**709.1497**	**709.1497**	**0.2294**		**714.8836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0257	0.0177	0.2417	6.9000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.3262	68.3262	2.0100e-003		68.3765
Total	**0.0379**	**0.4060**	**0.3432**	**1.7200e-003**	**0.0927**	**1.3300e-003**	**0.0940**	**0.0252**	**1.2600e-003**	**0.0264**		**178.2784**	**178.2784**	**8.4900e-003**		**178.4907**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.17 Pipeline - Final Pavement Striping - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.0104					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**9.0104**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0122	0.3884	0.1015	1.0300e-003	0.0256	7.9000e-004	0.0264	7.3700e-003	7.6000e-004	8.1300e-003		109.9523	109.9523	6.4800e-003		110.1142
Worker	0.0172	0.0118	0.1611	4.6000e-004	0.0447	3.6000e-004	0.0451	0.0119	3.3000e-004	0.0122		45.5508	45.5508	1.3400e-003		45.5844
Total	**0.0293**	**0.4002**	**0.2626**	**1.4900e-003**	**0.0703**	**1.1500e-003**	**0.0715**	**0.0192**	**1.0900e-003**	**0.0203**		**155.5030**	**155.5030**	**7.8200e-003**		**155.6985**

3.18 WTP - Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2254	0.0000	0.2254	0.0341	0.0000	0.0341			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**1.6889**	**16.6217**	**13.9605**	**0.0241**	**0.2254**	**0.8379**	**1.0633**	**0.0341**	**0.7829**	**0.8170**		**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0222	0.6977	0.1743	2.1600e-003	0.0490	2.0000e-003	0.0510	0.0134	1.9200e-003	0.0153		234.2018	234.2018	0.0158		234.5979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0373	0.5202	1.5400e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		153.8197	153.8197	4.2500e-003		153.9259
Total	**0.0784**	**0.7350**	**0.6946**	**3.7000e-003**	**0.2055**	**3.2200e-003**	**0.2087**	**0.0549**	**3.0500e-003**	**0.0580**		**388.0215**	**388.0215**	**0.0201**		**388.5237**

3.18 WTP - Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0879	0.0000	0.0879	0.0133	0.0000	0.0133			0.0000			0.0000
Off-Road	0.4630	8.5434	15.4154	0.0241		0.0375	0.0375		0.0375	0.0375	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	**0.4630**	**8.5434**	**15.4154**	**0.0241**	**0.0879**	**0.0375**	**0.1254**	**0.0133**	**0.0375**	**0.0508**	**0.0000**	**2,323.4168**	**2,323.4168**	**0.5921**		**2,338.2191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0222	0.6977	0.1743	2.1600e-003	0.0490	2.0000e-003	0.0510	0.0134	1.9200e-003	0.0153		234.2018	234.2018	0.0158		234.5979
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0373	0.5202	1.5400e-003	0.1565	1.2200e-003	0.1577	0.0415	1.1300e-003	0.0426		153.8197	153.8197	4.2500e-003		153.9259
Total	**0.0784**	**0.7350**	**0.6946**	**3.7000e-003**	**0.2055**	**3.2200e-003**	**0.2087**	**0.0549**	**3.0500e-003**	**0.0580**		**388.0215**	**388.0215**	**0.0201**		**388.5237**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0587	0.0000	6.0587	3.3142	0.0000	3.3142			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**1.5403**	**16.9836**	**9.2202**	**0.0206**	**6.0587**	**0.7423**	**6.8010**	**3.3142**	**0.6829**	**3.9971**		**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0333	1.0466	0.2615	3.2300e-003	0.0734	3.0000e-003	0.0765	0.0201	2.8700e-003	0.0230		351.3027	351.3027	0.0238		351.8968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0815**	**1.0785**	**0.7074**	**4.5500e-003**	**0.2076**	**4.0500e-003**	**0.2116**	**0.0557**	**3.8400e-003**	**0.0596**		**483.1482**	**483.1482**	**0.0274**		**483.8332**

3.19 WTP - Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3629	0.0000	2.3629	1.2925	0.0000	1.2925			0.0000			0.0000
Off-Road	0.3694	6.3628	12.1450	0.0206		0.0336	0.0336		0.0336	0.0336	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	**0.3694**	**6.3628**	**12.1450**	**0.0206**	**2.3629**	**0.0336**	**2.3965**	**1.2925**	**0.0336**	**1.3262**	**0.0000**	**1,995.4825**	**1,995.4825**	**0.6454**		**2,011.6169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0333	1.0466	0.2615	3.2300e-003	0.0734	3.0000e-003	0.0765	0.0201	2.8700e-003	0.0230		351.3027	351.3027	0.0238		351.8968
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0815**	**1.0785**	**0.7074**	**4.5500e-003**	**0.2076**	**4.0500e-003**	**0.2116**	**0.0557**	**3.8400e-003**	**0.0596**		**483.1482**	**483.1482**	**0.0274**		**483.8332**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4947	4.6039	5.9139	9.6900e-003		0.2370	0.2370		0.2298	0.2298		924.2735	924.2735	0.1270		927.4492
Total	**0.4947**	**4.6039**	**5.9139**	**9.6900e-003**		**0.2370**	**0.2370**		**0.2298**	**0.2298**		**924.2735**	**924.2735**	**0.1270**		**927.4492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.20 WTP - Building Construction 3 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1902	3.7007	6.3984	9.6900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	924.2735	924.2735	0.1270		927.4492
Total	**0.1902**	**3.7007**	**6.3984**	**9.6900e-003**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**924.2735**	**924.2735**	**0.1270**		**927.4492**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2051	2.5264	2.7615	4.8900e-003		0.0951	0.0951		0.0875	0.0875		473.4621	473.4621	0.1531		477.2902
Total	**0.2051**	**2.5264**	**2.7615**	**4.8900e-003**		**0.0951**	**0.0951**		**0.0875**	**0.0875**		**473.4621**	**473.4621**	**0.1531**		**477.2902**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	**0.0700**	**0.2272**	**0.6426**	**2.2700e-003**	**0.1916**	**1.7500e-003**	**0.1934**	**0.0511**	**1.6200e-003**	**0.0527**		**230.2912**	**230.2912**	**7.9800e-003**		**230.4906**

3.21 WTP - Building Construction 4 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1012	1.8908	3.3783	4.8900e-003		8.0100e-003	8.0100e-003		8.0100e-003	8.0100e-003	0.0000	473.4621	473.4621	0.1531		477.2902
Total	**0.1012**	**1.8908**	**3.3783**	**4.8900e-003**		**8.0100e-003**	**8.0100e-003**		**8.0100e-003**	**8.0100e-003**	**0.0000**	**473.4621**	**473.4621**	**0.1531**		**477.2902**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0642	0.0426	0.5946	1.7600e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		175.7940	175.7940	4.8500e-003		175.9153
Total	**0.0700**	**0.2272**	**0.6426**	**2.2700e-003**	**0.1916**	**1.7500e-003**	**0.1934**	**0.0511**	**1.6200e-003**	**0.0527**		**230.2912**	**230.2912**	**7.9800e-003**		**230.4906**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6447	6.1774	6.9638	0.0119		0.3154	0.3154		0.3019	0.3019		1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.6447**	**6.1774**	**6.9638**	**0.0119**		**0.3154**	**0.3154**		**0.3019**	**0.3019**		**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0402	0.0266	0.3716	1.1000e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		109.8712	109.8712	3.0300e-003		109.9470
Total	**0.0459**	**0.2113**	**0.4196**	**1.6100e-003**	**0.1246**	**1.2200e-003**	**0.1258**	**0.0333**	**1.1400e-003**	**0.0345**		**164.3684**	**164.3684**	**6.1600e-003**		**164.5224**

3.22 WTP - Building Construction 1 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2311	4.4177	7.7472	0.0119		0.0175	0.0175		0.0175	0.0175	0.0000	1,137.9965	1,137.9965	0.1962		1,142.9003
Total	**0.2311**	**4.4177**	**7.7472**	**0.0119**		**0.0175**	**0.0175**		**0.0175**	**0.0175**	**0.0000**	**1,137.9965**	**1,137.9965**	**0.1962**		**1,142.9003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0402	0.0266	0.3716	1.1000e-003	0.1118	8.7000e-004	0.1127	0.0296	8.1000e-004	0.0305		109.8712	109.8712	3.0300e-003		109.9470
Total	**0.0459**	**0.2113**	**0.4196**	**1.6100e-003**	**0.1246**	**1.2200e-003**	**0.1258**	**0.0333**	**1.1400e-003**	**0.0345**		**164.3684**	**164.3684**	**6.1600e-003**		**164.5224**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.23 WTP - Building Construction 2 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1219	2.3627	4.0155	5.7300e-003		0.0273	0.0273		0.0273	0.0273	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.1219**	**2.3627**	**4.0155**	**5.7300e-003**		**0.0273**	**0.0273**		**0.0273**	**0.0273**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1119	1.4803	2.2884	3.4500e-003		0.0516	0.0516		0.0475	0.0475		333.7545	333.7545	0.1079		336.4531
Total	**0.1119**	**1.4803**	**2.2884**	**3.4500e-003**		**0.0516**	**0.0516**		**0.0475**	**0.0475**		**333.7545**	**333.7545**	**0.1079**		**336.4531**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.24 WTP - Building Construction 5 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0776	1.5097	2.6103	3.4500e-003		5.6400e-003	5.6400e-003		5.6400e-003	5.6400e-003	0.0000	333.7545	333.7545	0.1079		336.4531
Total	**0.0776**	**1.5097**	**2.6103**	**3.4500e-003**		**5.6400e-003**	**5.6400e-003**		**5.6400e-003**	**5.6400e-003**	**0.0000**	**333.7545**	**333.7545**	**0.1079**		**336.4531**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5485	5.9614	6.9772	0.0178		0.2160	0.2160		0.1987	0.1987		1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.5485**	**5.9614**	**6.9772**	**0.0178**		**0.2160**	**0.2160**		**0.1987**	**0.1987**		**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0964	0.0639	0.8919	2.6500e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		263.6910	263.6910	7.2800e-003		263.8729
Total	**0.1021**	**0.2485**	**0.9399**	**3.1600e-003**	**0.2811**	**2.4500e-003**	**0.2835**	**0.0748**	**2.2600e-003**	**0.0771**		**318.1881**	**318.1881**	**0.0104**		**318.4483**

3.25 WTP - Building Construction 6 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3096	6.0151	11.0416	0.0178		0.0471	0.0471		0.0471	0.0471	0.0000	1,718.3405	1,718.3405	0.5558		1,732.2341
Total	**0.3096**	**6.0151**	**11.0416**	**0.0178**		**0.0471**	**0.0471**		**0.0471**	**0.0471**	**0.0000**	**1,718.3405**	**1,718.3405**	**0.5558**		**1,732.2341**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0964	0.0639	0.8919	2.6500e-003	0.2683	2.1000e-003	0.2704	0.0711	1.9300e-003	0.0731		263.6910	263.6910	7.2800e-003		263.8729
Total	**0.1021**	**0.2485**	**0.9399**	**3.1600e-003**	**0.2811**	**2.4500e-003**	**0.2835**	**0.0748**	**2.2600e-003**	**0.0771**		**318.1881**	**318.1881**	**0.0104**		**318.4483**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2232	2.8065	3.3085	5.7300e-003		0.1003	0.1003		0.0922	0.0922		554.7720	554.7720	0.1794		559.2576
Total	**0.2232**	**2.8065**	**3.3085**	**5.7300e-003**		**0.1003**	**0.1003**		**0.0922**	**0.0922**		**554.7720**	**554.7720**	**0.1794**		**559.2576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.26 WTP - Building Construction 7 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1219	2.3627	4.0155	5.7300e-003		0.0273	0.0273		0.0273	0.0273	0.0000	554.7720	554.7720	0.1794		559.2576
Total	**0.1219**	**2.3627**	**4.0155**	**5.7300e-003**		**0.0273**	**0.0273**		**0.0273**	**0.0273**	**0.0000**	**554.7720**	**554.7720**	**0.1794**		**559.2576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0321	0.0213	0.2973	8.8000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		87.8970	87.8970	2.4300e-003		87.9576
Total	**0.0378**	**0.2060**	**0.3453**	**1.3900e-003**	**0.1022**	**1.0500e-003**	**0.1033**	**0.0274**	**9.7000e-004**	**0.0284**		**142.3942**	**142.3942**	**5.5600e-003**		**142.5330**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**1.6246**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.27 WTP - Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0726	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**1.4245**	**1.4131**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.7100e-003	0.1847	0.0480	5.1000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.3000e-004	4.0200e-003		54.4972	54.4972	3.1300e-003		54.5754
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0539**	**0.2166**	**0.4940**	**1.8300e-003**	**0.1469**	**1.4000e-003**	**0.1483**	**0.0393**	**1.3000e-003**	**0.0406**		**186.3427**	**186.3427**	**6.7700e-003**		**186.5118**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	**1.6074**	**1.7373**	**2.4148**	**3.9600e-003**		**0.0944**	**0.0944**		**0.0944**	**0.0944**		**375.2641**	**375.2641**	**0.0225**		**375.8253**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0495**	**0.1690**	**0.4540**	**1.7600e-003**	**0.1469**	**1.1800e-003**	**0.1481**	**0.0393**	**1.0900e-003**	**0.0404**		**179.7993**	**179.7993**	**6.0500e-003**		**179.9506**

3.27 WTP - Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.3519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0726	1.4131	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0225		375.8253
Total	**1.4245**	**1.4131**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0225**		**375.8253**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0495**	**0.1690**	**0.4540**	**1.7600e-003**	**0.1469**	**1.1800e-003**	**0.1481**	**0.0393**	**1.0900e-003**	**0.0404**		**179.7993**	**179.7993**	**6.0500e-003**		**179.9506**

3.28 WTP - Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3732	3.8248	4.7443	7.3300e-003		0.1992	0.1992		0.1833	0.1833		709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4518**	**3.8248**	**4.7443**	**7.3300e-003**		**0.1992**	**0.1992**		**0.1833**	**0.1833**		**709.3618**	**709.3618**	**0.2294**		**715.0973**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003		108.9944	108.9944	6.2500e-003		109.1507
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0596**	**0.4013**	**0.5420**	**2.3400e-003**	**0.1597**	**1.7400e-003**	**0.1615**	**0.0429**	**1.6300e-003**	**0.0446**		**240.8398**	**240.8398**	**9.8900e-003**		**241.0872**

3.28 WTP - Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1540	3.2249	5.3771	7.3300e-003		0.0350	0.0350		0.0330	0.0330	0.0000	709.3618	709.3618	0.2294		715.0973
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2326**	**3.2249**	**5.3771**	**7.3300e-003**		**0.0350**	**0.0350**		**0.0330**	**0.0330**	**0.0000**	**709.3618**	**709.3618**	**0.2294**		**715.0973**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0114	0.3693	0.0961	1.0200e-003	0.0256	6.9000e-004	0.0263	7.3700e-003	6.6000e-004	8.0400e-003		108.9944	108.9944	6.2500e-003		109.1507
Worker	0.0482	0.0319	0.4459	1.3200e-003	0.1341	1.0500e-003	0.1352	0.0356	9.7000e-004	0.0365		131.8455	131.8455	3.6400e-003		131.9365
Total	**0.0596**	**0.4013**	**0.5420**	**2.3400e-003**	**0.1597**	**1.7400e-003**	**0.1615**	**0.0429**	**1.6300e-003**	**0.0446**		**240.8398**	**240.8398**	**9.8900e-003**		**241.0872**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0213	0.0000	0.0213	2.4300e-003	0.0000	2.4300e-003			0.0000			0.0000
Off-Road	0.1237	0.9584	1.7831	2.9400e-003		0.0451	0.0451		0.0420	0.0420		275.3110	275.3110	0.0835		277.3983
Total	**0.1237**	**0.9584**	**1.7831**	**2.9400e-003**	**0.0213**	**0.0451**	**0.0663**	**2.4300e-003**	**0.0420**	**0.0445**		**275.3110**	**275.3110**	**0.0835**		**277.3983**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0187	0.5918	0.2046	2.6500e-003	0.0630	1.0700e-003	0.0640	0.0173	1.0300e-003	0.0183		288.5633	288.5633	0.0190		289.0373
Vendor	0.0127	0.4203	0.1301	1.4800e-003	0.0384	4.9000e-004	0.0389	0.0111	4.6000e-004	0.0115		158.3445	158.3445	8.3100e-003		158.5523
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0767**	**1.0410**	**0.7454**	**5.4000e-003**	**0.2355**	**2.5800e-003**	**0.2381**	**0.0639**	**2.4300e-003**	**0.0663**		**573.9256**	**573.9256**	**0.0306**		**574.6895**

3.29 Well - SM-11 Grading - Well Pad - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2900e-003	0.0000	8.2900e-003	9.5000e-004	0.0000	9.5000e-004			0.0000			0.0000
Off-Road	0.0318	1.1383	1.9590	2.9400e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	275.3110	275.3110	0.0835		277.3983
Total	**0.0318**	**1.1383**	**1.9590**	**2.9400e-003**	**8.2900e-003**	**4.2400e-003**	**0.0125**	**9.5000e-004**	**4.2400e-003**	**5.1900e-003**	**0.0000**	**275.3110**	**275.3110**	**0.0835**		**277.3983**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0187	0.5918	0.2046	2.6500e-003	0.0630	1.0700e-003	0.0640	0.0173	1.0300e-003	0.0183		288.5633	288.5633	0.0190		289.0373
Vendor	0.0127	0.4203	0.1301	1.4800e-003	0.0384	4.9000e-004	0.0389	0.0111	4.6000e-004	0.0115		158.3445	158.3445	8.3100e-003		158.5523
Worker	0.0453	0.0289	0.4107	1.2700e-003	0.1341	1.0200e-003	0.1352	0.0356	9.4000e-004	0.0365		127.0178	127.0178	3.2800e-003		127.0999
Total	**0.0767**	**1.0410**	**0.7454**	**5.4000e-003**	**0.2355**	**2.5800e-003**	**0.2381**	**0.0639**	**2.4300e-003**	**0.0663**		**573.9256**	**573.9256**	**0.0306**		**574.6895**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1212	1.0293	1.8830	3.7700e-003		0.0462	0.0462		0.0425	0.0425		364.4782	364.4782	0.1179		367.4252
Total	**0.1212**	**1.0293**	**1.8830**	**3.7700e-003**		**0.0462**	**0.0462**		**0.0425**	**0.0425**		**364.4782**	**364.4782**	**0.1179**		**367.4252**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0513	1.4526	2.5924	3.7700e-003		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	364.4782	364.4782	0.1179		367.4252
Total	**0.0513**	**1.4526**	**2.5924**	**3.7700e-003**		**6.1800e-003**	**6.1800e-003**		**6.1800e-003**	**6.1800e-003**	**0.0000**	**364.4782**	**364.4782**	**0.1179**		**367.4252**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0943	0.7743	1.6289	2.5800e-003		0.0379	0.0379		0.0349	0.0349		250.0528	250.0528	0.0809		252.0746
Total	**0.0943**	**0.7743**	**1.6289**	**2.5800e-003**		**0.0379**	**0.0379**		**0.0349**	**0.0349**		**250.0528**	**250.0528**	**0.0809**		**252.0746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0318	1.1383	1.9590	2.5800e-003		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	250.0528	250.0528	0.0809		252.0746
Total	**0.0318**	**1.1383**	**1.9590**	**2.5800e-003**		**4.2400e-003**	**4.2400e-003**		**4.2400e-003**	**4.2400e-003**	**0.0000**	**250.0528**	**250.0528**	**0.0809**		**252.0746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2300e-003	0.1401	0.0434	4.9000e-004	0.0128	1.6000e-004	0.0130	3.6900e-003	1.5000e-004	3.8400e-003		52.7815	52.7815	2.7700e-003		52.8508
Worker	0.0302	0.0193	0.2738	8.5000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		84.6786	84.6786	2.1900e-003		84.7332
Total	**0.0344**	**0.1594**	**0.3172**	**1.3400e-003**	**0.1022**	**8.4000e-004**	**0.1031**	**0.0274**	**7.8000e-004**	**0.0282**		**137.4601**	**137.4601**	**4.9600e-003**		**137.5840**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076
Unmitigated	7.6400e-003	0.2173	0.0816	1.2200e-003	0.0370	4.2000e-004	0.0374	0.0106	4.0000e-004	0.0110		130.1695	130.1695	5.5200e-003		130.3076

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Industrial Park	2.00	0.00	0.00	10,400	10,400
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	2.00	0.00	0.00	10,400	10,400

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	20.00	20.00	20.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
NaturalGas Unmitigated	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	520.685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.520685	5.6200e-003	0.0511	0.0429	3.1000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003		61.2571	61.2571	1.1700e-003	1.1200e-003	61.6211
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**5.6200e-003**	**0.0511**	**0.0429**	**3.1000e-004**		**3.8800e-003**	**3.8800e-003**		**3.8800e-003**	**3.8800e-003**		**61.2571**	**61.2571**	**1.1700e-003**	**1.1200e-003**	**61.6211**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Unmitigated	1.4497	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0291					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4204					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.9700e-003	2.9700e-003	1.0000e-005		3.1600e-003
Total	**1.4497**	**1.0000e-005**	**1.3800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.9700e-003**	**2.9700e-003**	**1.0000e-005**		**3.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Mitigated

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.50	1000sqft	0.24	10,500.00	0
Industrial Park	1.00	1000sqft	0.00	1,000.00	0
User Defined Industrial	0.74	User Defined Unit	0.74	32,400.00	0
User Defined Industrial	0.63	User Defined Unit	0.63	27,300.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	30,056.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Continual Pavement Striping: Applicant-provided data.

Off-road Equipment - Pipeline - Continual Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Final Pavement Striping: Applicant-provided data.
Off-road Equipment - Pipeline - Final Paving: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Installation: Applicant-provided data.

Off-road Equipment - Pipeline - Grading - Slurry Backfill: Applicant-provided data.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-10 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-10 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-11 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-11 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-8 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-8 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Artistic Fencing: Applicant-provided data.

Off-road Equipment - Well - SM-9 Building Construction - Well Equipping: Applicant-provided data.

Off-road Equipment - Well - SM-9 Grading - Well Pad: Applicant-provided data.

Off-road Equipment - WTP - Architectural Coating: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 1: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 2: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 3: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 4: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 5: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 6: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 7: Applicant-provided data.

Off-road Equipment - WTP - Demolition: Applicant-provided data.

Off-road Equipment - WTP - Paving: Applicant-provided data.

Off-road Equipment - WTP - Site Preparation and Grading: Applicant-provided data.

Trips and VMT - Applicant-provided trip information.

On-road Fugitive Dust - CalEEMod default values.

Demolition - Demolition: WTP - Demolition. 5,725 SF total.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of new buildings and asphalt surface striping.

Vehicle Trips - No net new worker operational trips anticipated. Minimal, infrequent net new truck deliveries anticipated (maximum 2 one-way trips per day).

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Road Dust - Operational mobile source emissions not estimated.

Woodstoves - No hearths.

Consumer Products - CalEEMod default values.

Area Coating - Operational architectural coating for 10,500 SF of building (conservative as some surfaces would not require coating).

Landscape Equipment - No increase in landscape maintenance activity from existing conditions.

Energy Use - CalEEMod default values for General Light Industry.

Water And Wastewater - CalEEMod default values for water use. 100% aerobic.

Solid Waste - CalEEMod default values.

Construction Off-road Equipment Mitigation - Off-road Equipment: All equipment over 50 HP assumed to meet Tier 4 Interim standards. Water Exposed Area, Frequency: 3 times per day.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No area mitigation.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water mitigation.

Waste Mitigation - Percent Reduction in Waste Disposed: 50%. Waste diversion consistent with Assembly Bill 939.

Operational Off-Road Equipment - No operational offroad equipment.

Fleet Mix - Industrial Park: 50% MHDT/50% HHDT.

Stationary Sources - User Defined - No operational stationary sources.

Olympic Well Field Restoration and Arcadia WTP Expansion Project - Mitigated - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	15,750.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	1,944.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	35600	5250
tblAreaCoating	Area_Nonresidential_Interior	106800	15750
tblAreaCoating	Area_Parking	1803	1944
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstructionPhase	NumDays	3.00	5.00
tblEnergyUse	LightingElect	3.77	0.00
tblEnergyUse	NT24E	4.62	0.00
tblEnergyUse	NT24NG	0.39	0.00
tblEnergyUse	T24E	4.60	0.00
tblEnergyUse	T24NG	10.02	0.00
tblFleetMix	HHD	0.03	0.50

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.2530e-003	0.00
tblFleetMix	MCY	5.2170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.5000e-004	0.00
tblFleetMix	MHD	0.02	0.50
tblFleetMix	OBUS	2.5600e-003	0.00
tblFleetMix	SBUS	6.9600e-004	0.00
tblFleetMix	UBUS	2.0710e-003	0.00
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tblGrading	AcresOfGrading	0.00	0.74
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tblGrading	AcresOfGrading	0.00	0.17
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tblGrading	MaterialExported	0.00	450.00
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tblGrading	MaterialExported	0.00	285.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	0.00	27,300.00
tblLandUse	LandUseSquareFeet	0.00	32,400.00
tblLandUse	LotAcreage	0.02	0.00

tblLandUse	LotAcreage	0.00	0.63
tblLandUse	LotAcreage	0.00	0.74
tblOffRoadEquipment	HorsePower	132.00	320.00
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tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00

tblOffRoadEquipment	UsageHours	8.00	2.00
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tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1132
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripNumber	509.00	510.00
tblTripsAndVMT	HaulingTripNumber	26.00	70.00
tblTripsAndVMT	HaulingTripNumber	0.00	84.00
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tblVehicleTrips	CNW_TL	6.90	20.00
tblVehicleTrips	CW_TL	16.60	20.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	100.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	6.83	2.00
tblWater	AerobicPercent	87.46	100.00

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	8.5300e-003	0.0929	0.0924	2.5000e-004	6.2800e-003	2.7400e-003	9.0300e-003	1.6400e-003	2.5400e-003	4.1800e-003	0.0000	23.1355	23.1355	4.2100e-003	0.0000	23.2408
2021	0.0578	0.5066	0.5443	1.2100e-003	0.0212	0.0196	0.0408	5.6600e-003	0.0181	0.0237	0.0000	110.1310	110.1310	0.0234	0.0000	110.7168
2022	0.2221	1.7766	2.0143	4.1600e-003	0.1244	0.0752	0.1996	0.0499	0.0707	0.1206	0.0000	367.0084	367.0084	0.0786	0.0000	368.9722
2023	0.0180	0.0483	0.0785	1.8000e-004	4.4900e-003	1.9300e-003	6.4200e-003	1.1900e-003	1.8400e-003	3.0300e-003	0.0000	16.2954	16.2954	2.7100e-003	0.0000	16.3632
Maximum	**0.2221**	**1.7766**	**2.0143**	**4.1600e-003**	**0.1244**	**0.0752**	**0.1996**	**0.0499**	**0.0707**	**0.1206**	**0.0000**	**367.0084**	**367.0084**	**0.0786**	**0.0000**	**368.9722**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	4.3500e-003	0.0847	0.1107	2.5000e-004	6.0500e-003	3.6000e-004	6.4100e-003	1.6100e-003	3.6000e-004	1.9700e-003	0.0000	23.1355	23.1355	4.2100e-003	0.0000	23.2408
2021	0.0319	0.4563	0.6198	1.2100e-003	0.0208	2.7400e-003	0.0235	5.6100e-003	2.6200e-003	8.2300e-003	0.0000	110.1309	110.1309	0.0234	0.0000	110.7167
2022	0.1265	1.3535	2.4133	4.1600e-003	0.0858	8.3700e-003	0.0941	0.0294	8.3000e-003	0.0377	0.0000	367.0080	367.0080	0.0786	0.0000	368.9719
2023	0.0147	0.0545	0.0910	1.8000e-004	4.4300e-003	2.2000e-004	4.6400e-003	1.1900e-003	2.1000e-004	1.4000e-003	0.0000	16.2954	16.2954	2.7100e-003	0.0000	16.3632
Maximum	**0.1265**	**1.3535**	**2.4133**	**4.1600e-003**	**0.0858**	**8.3700e-003**	**0.0941**	**0.0294**	**8.3000e-003**	**0.0377**	**0.0000**	**367.0080**	**367.0080**	**0.0786**	**0.0000**	**368.9719**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**42.13**	**19.61**	**-18.51**	**0.00**	**25.17**	**88.25**	**49.70**	**35.20**	**87.67**	**67.46**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	**11-13-2020**	**2-12-2021**	0.1617	0.1474
5	**2-13-2021**	**5-12-2021**	0.3794	0.3250
6	**5-13-2021**	**8-12-2021**	0.1188	0.0990
8	**11-13-2021**	**2-12-2022**	0.2417	0.1147
9	**2-13-2022**	**5-12-2022**	0.7415	0.5118
10	**5-13-2022**	**8-12-2022**	0.6255	0.5279
11	**8-13-2022**	**11-12-2022**	0.2784	0.2333
12	**11-13-2022**	**2-12-2023**	0.1290	0.1075

14	**5-13-2023**	**8-12-2023**	0.0249	0.0290
15	**8-13-2023**	**9-30-2023**	0.0108	0.0139
		Highest	0.7415	0.5279

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	69.9863	69.9863	1.7300e-003	5.0000e-004	70.1794
Mobile	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Waste						0.0000	0.0000		0.0000	0.0000	2.6429	0.0000	2.6429	0.1562	0.0000	6.5478
Water						0.0000	0.0000		0.0000	0.0000	0.8591	16.2341	17.0932	3.3700e-003	1.9500e-003	17.7598
Total	**0.2666**	**0.0383**	**0.0187**	**2.2000e-004**	**4.7300e-003**	**7.7000e-004**	**5.4900e-003**	**1.3600e-003**	**7.6000e-004**	**2.1300e-003**	**3.5020**	**101.4834**	**104.9854**	**0.1620**	**2.4500e-003**	**109.7665**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	69.9863	69.9863	1.7300e-003	5.0000e-004	70.1794
Mobile	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Waste						0.0000	0.0000		0.0000	0.0000	1.3215	0.0000	1.3215	0.0781	0.0000	3.2739
Water						0.0000	0.0000		0.0000	0.0000	0.8591	16.2341	17.0932	3.3700e-003	1.9500e-003	17.7598
Total	**0.2666**	**0.0383**	**0.0187**	**2.2000e-004**	**4.7300e-003**	**7.7000e-004**	**5.4900e-003**	**1.3600e-003**	**7.6000e-004**	**2.1300e-003**	**2.1805**	**101.4834**	**103.6639**	**0.0839**	**2.4500e-003**	**106.4926**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**37.73**	**0.00**	**1.26**	**48.22**	**0.00**	**2.98**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Well - SM-10 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
2	Well - SM-8 Grading - Well Pad	Grading	11/27/2020	12/10/2020	5	10	
3	Well - SM-9 Grading Well Pad	Grading	11/27/2020	12/10/2020	5	10	

4	Well - SM-10 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25
5	Well - SM-8 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25
6	Well - SM-9 Building Construction - Well Equipping	Building Construction	12/11/2020	1/14/2021	5	25
7	Well - SM-10 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15
8	Well - SM-8 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15
9	Well - SM-9 Building Construction - Artistic Fencing	Building Construction	1/15/2021	2/4/2021	5	15
10	Pipeline - Site Preparation	Site Preparation	2/28/2021	3/5/2021	5	5
11	Pipeline - Grading - Slurry Backfill	Grading	3/6/2021	5/28/2021	5	60
12	Pipeline - Grading - Installation	Grading	3/6/2021	5/28/2021	5	60
13	Pipeline - Continual Paving	Paving	3/6/2021	5/28/2021	5	60
14	Pipeline - Continual Pavement Striping	Architectural Coating	3/6/2021	5/28/2021	5	60
15	Pipeline - Final Paving	Paving	5/29/2021	6/11/2021	5	10
16	Pipeline - Final Pavement Striping	Architectural Coating	6/14/2021	6/14/2021	5	1
17	WTP - Demolition	Demolition	1/21/2022	2/24/2022	5	25
18	WTP - Site Preparation and Grading	Grading	2/1/2022	2/28/2022	5	20
19	WTP - Building Construction 3	Building Construction	3/1/2022	9/1/2022	5	133
20	WTP - Building Construction 4	Building Construction	3/1/2022	9/15/2022	5	143
21	WTP - Building Construction 1	Building Construction	3/1/2022	6/1/2022	5	67
22	WTP - Building Construction 2	Building Construction	3/1/2022	7/1/2022	5	89
23	WTP - Building Construction 5	Building Construction	4/1/2022	5/13/2022	5	31
24	WTP - Building Construction 6	Building Construction	5/1/2022	9/1/2022	5	89
25	WTP - Building Construction 7	Building Construction	8/1/2022	11/1/2022	5	67
26	WTP - Architectural Coating	Architectural Coating	10/15/2022	1/24/2023	5	72
27	WTP - Paving	Paving	11/1/2022	12/1/2022	5	23
28	Well - SM-11 Grading - Well Pad	Grading	7/1/2023	7/14/2023	5	10

29	Well - SM-11 Building Construction - Well Equipping	Building Construction	7/15/2023	8/18/2023	5	25	
30	Well - SM-11 Building Construction - Artistic Fencing	Building Construction	8/19/2023	9/8/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,944 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Well - SM-10 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-10 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-10 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-10 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-10 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-8 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-8 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-8 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-8 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-8 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-9 Grading Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-9 Grading Well Pad	Excavators	1	4.00	158	0.38
Well - SM-9 Grading Well Pad	Graders	0	8.00	187	0.41
Well - SM-9 Grading Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-9 Grading Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Well - SM-10 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-10 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-10 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-8 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40
Well - SM-8 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-9 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Well Equipping	Rough Terrain Forklifts	0	6.00	100	0.40

Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-10 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-10 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-10 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-10 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-10 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-10 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-8 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-8 Building Construction - Artistic Fencing	Excavators	0	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-8 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-8 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-8 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-8 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45
Well - SM-9 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-9 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-9 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-9 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-9 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-9 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Pipeline - Site Preparation	Graders	0	8.00	187	0.41
Pipeline - Site Preparation	Pavers	1	8.00	130	0.42
Pipeline - Site Preparation	Scrapers	0	8.00	367	0.48
Pipeline - Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Slurry Backfill	Cement and Mortar Mixers	1	4.00	9	0.56
Pipeline - Grading - Slurry Backfill	Graders	0	8.00	187	0.41
Pipeline - Grading - Slurry Backfill	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Slurry Backfill	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Grading - Installation	Excavators	2	8.00	158	0.38
Pipeline - Grading - Installation	Graders	0	8.00	187	0.41
Pipeline - Grading - Installation	Rollers	1	4.00	80	0.38
Pipeline - Grading - Installation	Rubber Tired Dozers	0	8.00	247	0.40
Pipeline - Grading - Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Pipeline - Continual Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Continual Paving	Pavers	1	8.00	130	0.42
Pipeline - Continual Paving	Paving Equipment	0	8.00	132	0.36
Pipeline - Continual Paving	Rollers	1	8.00	80	0.38
Pipeline - Continual Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Continual Pavement Striping	Air Compressors	0	6.00	78	0.48
Pipeline - Final Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Pipeline - Final Paving	Pavers	1	8.00	130	0.42
Pipeline - Final Paving	Paving Equipment	1	8.00	320	0.36
Pipeline - Final Paving	Rollers	1	8.00	80	0.38
Pipeline - Final Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Pipeline - Final Pavement Striping	Air Compressors	0	6.00	78	0.48
WTP - Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
WTP - Demolition	Rubber Tired Dozers	1	8.00	247	0.40

WTP - Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
WTP - Site Preparation and Grading	Graders	1	8.00	187	0.41
WTP - Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Site Preparation and Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WTP - Building Construction 3	Cranes	0	8.00	231	0.29
WTP - Building Construction 3	Forklifts	0	7.00	89	0.20
WTP - Building Construction 3	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 3	Welders	0	8.00	46	0.45
WTP - Building Construction 4	Cranes	1	2.00	231	0.29
WTP - Building Construction 4	Forklifts	0	7.00	89	0.20
WTP - Building Construction 4	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 4	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 4	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 4	Welders	0	8.00	46	0.45
WTP - Building Construction 1	Cranes	1	2.00	231	0.29
WTP - Building Construction 1	Forklifts	1	4.00	89	0.20
WTP - Building Construction 1	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 1	Welders	0	8.00	46	0.45
WTP - Building Construction 2	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 2	Cranes	1	2.00	231	0.29
WTP - Building Construction 2	Forklifts	0	7.00	89	0.20
WTP - Building Construction 2	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 2	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 2	Welders	0	8.00	46	0.45

WTP - Building Construction 5	Cranes	0	8.00	231	0.29
WTP - Building Construction 5	Forklifts	0	7.00	89	0.20
WTP - Building Construction 5	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 5	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 5	Welders	0	8.00	46	0.45
WTP - Building Construction 6	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 6	Bore/Drill Rigs	1	8.00	221	0.50
WTP - Building Construction 6	Cranes	1	2.00	231	0.29
WTP - Building Construction 6	Excavators	1	4.00	158	0.38
WTP - Building Construction 6	Forklifts	0	7.00	89	0.20
WTP - Building Construction 6	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 6	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 6	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 6	Welders	0	8.00	46	0.45
WTP - Building Construction 7	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 7	Cranes	1	2.00	231	0.29
WTP - Building Construction 7	Forklifts	0	7.00	89	0.20
WTP - Building Construction 7	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 7	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 7	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 7	Welders	0	8.00	46	0.45
WTP - Architectural Coating	Air Compressors	1	8.00	78	0.48
WTP - Paving	Cement and Mortar Mixers	0	8.00	9	0.56
WTP - Paving	Pavers	1	8.00	130	0.42
WTP - Paving	Paving Equipment	0	8.00	132	0.36
WTP - Paving	Rollers	1	8.00	80	0.38

WTP - Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Well - SM-11 Grading - Well Pad	Cement and Mortar Mixers	1	4.00	9	0.56
Well - SM-11 Grading - Well Pad	Excavators	1	4.00	158	0.38
Well - SM-11 Grading - Well Pad	Graders	0	8.00	187	0.41
Well - SM-11 Grading - Well Pad	Rubber Tired Dozers	0	8.00	247	0.40
Well - SM-11 Grading - Well Pad	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Bore/Drill Rigs	1	1.00	221	0.50
Well - SM-11 Building Construction - Well Equipping	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Well Equipping	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Well Equipping	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Well Equipping	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Well Equipping	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Well Equipping	Welders	0	8.00	46	0.45
Well - SM-11 Building Construction - Artistic Fencing	Cranes	0	8.00	231	0.29
Well - SM-11 Building Construction - Artistic Fencing	Excavators	1	4.00	158	0.38
Well - SM-11 Building Construction - Artistic Fencing	Forklifts	0	7.00	89	0.20
Well - SM-11 Building Construction - Artistic Fencing	Generator Sets	0	8.00	84	0.74
Well - SM-11 Building Construction - Artistic Fencing	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Well - SM-11 Building Construction - Artistic Fencing	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Well - SM-10 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Well - SM-8 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Grading Well Pad	2	12.00	6.00	56.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-10 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-8 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-9 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Site Preparation	1	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Slurry Backfill	1	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Grading - Installation	3	12.00	4.00	510.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Paving	2	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Continual Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Paving	3	6.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline - Final Pavement Striping	0	4.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Demolition	5	14.00	0.00	70.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Site Preparation and Gradi	4	12.00	0.00	84.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 3	2	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 4	2	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 1	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 2	3	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 5	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 6	5	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 7	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Architectural Coating	1	12.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Paving	2	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Grading - Well Pad	2	12.00	6.00	36.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Well - SM-11 Building Construction - Well Eq	2	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well - SM-11 Building Construction - Artistic	1	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**1.1000e-004**	**3.3000e-004**	**4.4000e-004**	**1.0000e-005**	**3.0000e-004**	**3.1000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.2 Well - SM-10 Grading - Well Pad - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	5.6900e-003	9.8000e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**1.6000e-004**	**5.6900e-003**	**9.8000e-003**	**1.0000e-005**	**4.0000e-005**	**2.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.2 Well - SM-10 Grading - Well Pad - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**1.1000e-004**	**3.3000e-004**	**4.4000e-004**	**1.0000e-005**	**3.0000e-004**	**3.1000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.3 Well - SM-8 Grading - Well Pad - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	5.6900e-003	9.8000e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**1.6000e-004**	**5.6900e-003**	**9.8000e-003**	**1.0000e-005**	**4.0000e-005**	**2.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.3 Well - SM-8 Grading - Well Pad - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	5.3500e-003	1.1800e-003	1.0000e-005	3.1000e-004	2.0000e-005	3.3000e-004	8.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.3874	1.3874	1.0000e-004	0.0000	1.3898
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**5.5000e-004**	**8.8200e-003**	**4.5300e-003**	**3.0000e-005**	**1.1600e-003**	**5.0000e-005**	**1.1900e-003**	**3.0000e-004**	**4.0000e-005**	**3.5000e-004**	**0.0000**	**2.7455**	**2.7455**	**1.7000e-004**	**0.0000**	**2.7496**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7000e-004	0.0000	1.7000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6000e-004	6.9500e-003	8.9400e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**7.6000e-004**	**6.9500e-003**	**8.9400e-003**	**1.0000e-005**	**1.7000e-004**	**3.3000e-004**	**5.0000e-004**	**2.0000e-005**	**3.0000e-004**	**3.2000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.4 Well - SM-9 Grading Well Pad - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	8.3200e-003	1.8300e-003	2.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	2.1582	2.1582	1.5000e-004	0.0000	2.1620
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**6.4000e-004**	**0.0118**	**5.1800e-003**	**4.0000e-005**	**1.3300e-003**	**6.0000e-005**	**1.3700e-003**	**3.5000e-004**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**3.5163**	**3.5163**	**2.2000e-004**	**0.0000**	**3.5217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	5.6900e-003	9.8000e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**1.6000e-004**	**5.6900e-003**	**9.8000e-003**	**1.0000e-005**	**7.0000e-005**	**2.0000e-005**	**9.0000e-005**	**1.0000e-005**	**2.0000e-005**	**3.0000e-005**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.4 Well - SM-9 Grading Well Pad - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	8.3200e-003	1.8300e-003	2.0000e-005	4.8000e-004	3.0000e-005	5.1000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	2.1582	2.1582	1.5000e-004	0.0000	2.1620
Vendor	1.1000e-004	3.2500e-003	8.8000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7453	0.7453	5.0000e-005	0.0000	0.7465
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**6.4000e-004**	**0.0118**	**5.1800e-003**	**4.0000e-005**	**1.3300e-003**	**6.0000e-005**	**1.3700e-003**	**3.5000e-004**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**3.5163**	**3.5163**	**2.2000e-004**	**0.0000**	**3.5217**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8000e-004	0.0109	0.0194	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**3.8000e-004**	**0.0109**	**0.0194**	**3.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.5 Well - SM-10 Building Construction - Well Equipping - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-004	7.2600e-003	0.0130	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**2.6000e-004**	**7.2600e-003**	**0.0130**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.5 Well - SM-10 Building Construction - Well Equipping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8000e-004	0.0109	0.0194	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**3.8000e-004**	**0.0109**	**0.0194**	**3.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.6 Well - SM-8 Building Construction - Well Equipping - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-004	7.2600e-003	0.0130	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**2.6000e-004**	**7.2600e-003**	**0.0130**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.6 Well - SM-8 Building Construction - Well Equipping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0124	0.0142	3.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**1.1800e-003**	**0.0124**	**0.0142**	**3.0000e-005**		**5.3000e-004**	**5.3000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8000e-004	0.0109	0.0194	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.4752	2.4752	8.0000e-004	0.0000	2.4952
Total	**3.8000e-004**	**0.0109**	**0.0194**	**3.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**2.4752**	**2.4752**	**8.0000e-004**	**0.0000**	**2.4952**

3.7 Well - SM-9 Building Construction - Well Equipping - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.6300e-003	4.4000e-004	0.0000	9.0000e-005	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3726	0.3726	2.0000e-005	0.0000	0.3732
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**3.3000e-004**	**1.8500e-003**	**2.9100e-003**	**1.0000e-005**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**2.0000e-004**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**0.9855**	**0.9855**	**4.0000e-005**	**0.0000**	**0.9865**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.2700e-003	9.4800e-003	2.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**7.3000e-004**	**7.2700e-003**	**9.4800e-003**	**2.0000e-005**		**3.2000e-004**	**3.2000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6000e-004	7.2600e-003	0.0130	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6516	1.6516	5.3000e-004	0.0000	1.6649
Total	**2.6000e-004**	**7.2600e-003**	**0.0130**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.6516**	**1.6516**	**5.3000e-004**	**0.0000**	**1.6649**

3.7 Well - SM-9 Building Construction - Well Equipping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**2.0000e-004**	**1.1200e-003**	**1.7800e-003**	**0.0000**	**5.0000e-004**	**0.0000**	**5.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6421**	**0.6421**	**3.0000e-005**	**0.0000**	**0.6427**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4000e-004	8.5400e-003	0.0147	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**2.4000e-004**	**8.5400e-003**	**0.0147**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.8 Well - SM-10 Building Construction - Artistic Fencing - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4000e-004	8.5400e-003	0.0147	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**2.4000e-004**	**8.5400e-003**	**0.0147**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.9 Well - SM-8 Building Construction - Artistic Fencing - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6000e-004	8.0800e-003	0.0123	2.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**8.6000e-004**	**8.0800e-003**	**0.0123**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4000e-004	8.5400e-003	0.0147	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.7016	1.7016	5.5000e-004	0.0000	1.7154
Total	**2.4000e-004**	**8.5400e-003**	**0.0147**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.7016**	**1.7016**	**5.5000e-004**	**0.0000**	**1.7154**

3.10 Well - SM-9 Building Construction - Artistic Fencing - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**3.1000e-004**	**1.6800e-003**	**2.6700e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9631**	**0.9631**	**4.0000e-005**	**0.0000**	**0.9641**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	6.4900e-003	7.2600e-003	1.0000e-005		3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004	0.0000	1.0321	1.0321	3.3000e-004	0.0000	1.0404
Total	**6.2000e-004**	**6.4900e-003**	**7.2600e-003**	**1.0000e-005**	**0.0000**	**3.1000e-004**	**3.1000e-004**	**0.0000**	**2.9000e-004**	**2.9000e-004**	**0.0000**	**1.0321**	**1.0321**	**3.3000e-004**	**0.0000**	**1.0404**

3.11 Pipeline - Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.1000e-004	8.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2472	0.2472	1.0000e-005	0.0000	0.2474
Total	**1.4000e-004**	**1.0700e-003**	**1.2200e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.4937**	**0.4937**	**3.0000e-005**	**0.0000**	**0.4943**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6000e-004	5.5000e-003	8.5000e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.0321	1.0321	3.3000e-004	0.0000	1.0404
Total	**2.6000e-004**	**5.5000e-003**	**8.5000e-003**	**1.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**9.0000e-005**	**0.0000**	**1.0321**	**1.0321**	**3.3000e-004**	**0.0000**	**1.0404**

3.11 Pipeline - Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	9.9000e-004	2.7000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2465	0.2465	2.0000e-005	0.0000	0.2469
Worker	1.1000e-004	8.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2472	0.2472	1.0000e-005	0.0000	0.2474
Total	**1.4000e-004**	**1.0700e-003**	**1.2200e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.4937**	**0.4937**	**3.0000e-005**	**0.0000**	**0.4943**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8000e-004	5.5200e-003	4.6300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.6874	0.6874	7.0000e-005	0.0000	0.6892
Total	**8.8000e-004**	**5.5200e-003**	**4.6300e-003**	**1.0000e-005**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**0.6874**	**0.6874**	**7.0000e-005**	**0.0000**	**0.6892**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	1.0000e-005		0.0000	0.0000		0.0000	0.0000	0.0000	0.6874	0.6874	7.0000e-005	0.0000	0.6892
Total	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.6874**	**0.6874**	**7.0000e-005**	**0.0000**	**0.6892**

3.12 Pipeline - Grading - Slurry Backfill - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2000e-004	0.0000	6.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1581	0.2245	3.5000e-004		8.0300e-003	8.0300e-003		7.3900e-003	7.3900e-003	0.0000	30.6836	30.6836	9.9200e-003	0.0000	30.9317
Total	**0.0166**	**0.1581**	**0.2245**	**3.5000e-004**	**6.2000e-004**	**8.0300e-003**	**8.6500e-003**	**8.0000e-005**	**7.3900e-003**	**7.4700e-003**	**0.0000**	**30.6836**	**30.6836**	**9.9200e-003**	**0.0000**	**30.9317**

3.13 Pipeline - Grading - Installation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.0706	0.0165	2.0000e-004	4.3800e-003	2.1000e-004	4.5900e-003	1.2000e-003	2.0000e-004	1.4100e-003	0.0000	19.4386	19.4386	1.3500e-003	0.0000	19.4723
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	**4.0700e-003**	**0.0836**	**0.0333**	**2.7000e-004**	**9.0800e-003**	**2.6000e-004**	**9.3500e-003**	**2.4700e-003**	**2.5000e-004**	**2.7300e-003**	**0.0000**	**25.9566**	**25.9566**	**1.6300e-003**	**0.0000**	**25.9975**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7000e-003	0.1538	0.2648	3.5000e-004		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	30.6835	30.6835	9.9200e-003	0.0000	30.9316
Total	**4.7000e-003**	**0.1538**	**0.2648**	**3.5000e-004**	**2.4000e-004**	**5.7000e-004**	**8.1000e-004**	**3.0000e-005**	**5.7000e-004**	**6.0000e-004**	**0.0000**	**30.6835**	**30.6835**	**9.9200e-003**	**0.0000**	**30.9316**

3.13 Pipeline - Grading - Installation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.0706	0.0165	2.0000e-004	4.3800e-003	2.1000e-004	4.5900e-003	1.2000e-003	2.0000e-004	1.4100e-003	0.0000	19.4386	19.4386	1.3500e-003	0.0000	19.4723
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	**4.0700e-003**	**0.0836**	**0.0333**	**2.7000e-004**	**9.0800e-003**	**2.6000e-004**	**9.3500e-003**	**2.4700e-003**	**2.5000e-004**	**2.7300e-003**	**0.0000**	**25.9566**	**25.9566**	**1.6300e-003**	**0.0000**	**25.9975**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0131	0.1356	0.1436	2.2000e-004		7.2900e-003	7.2900e-003		6.7100e-003	6.7100e-003	0.0000	19.2999	19.2999	6.2400e-003	0.0000	19.4559
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.1356**	**0.1436**	**2.2000e-004**		**7.2900e-003**	**7.2900e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.2999**	**19.2999**	**6.2400e-003**	**0.0000**	**19.4559**

3.14 Pipeline - Continual Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**1.1400e-003**	**0.0124**	**0.0100**	**5.0000e-005**	**2.7300e-003**	**4.0000e-005**	**2.7700e-003**	**7.4000e-004**	**3.0000e-005**	**7.8000e-004**	**0.0000**	**4.7380**	**4.7380**	**2.3000e-004**	**0.0000**	**4.7439**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9200e-003	0.1005	0.1615	2.2000e-004		1.2400e-003	1.2400e-003		1.1700e-003	1.1700e-003	0.0000	19.2999	19.2999	6.2400e-003	0.0000	19.4559
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.8200e-003**	**0.1005**	**0.1615**	**2.2000e-004**		**1.2400e-003**	**1.2400e-003**		**1.1700e-003**	**1.1700e-003**	**0.0000**	**19.2999**	**19.2999**	**6.2400e-003**	**0.0000**	**19.4559**

3.14 Pipeline - Continual Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**1.1400e-003**	**0.0124**	**0.0100**	**5.0000e-005**	**2.7300e-003**	**4.0000e-005**	**2.7700e-003**	**7.4000e-004**	**3.0000e-005**	**7.8000e-004**	**0.0000**	**4.7380**	**4.7380**	**2.3000e-004**	**0.0000**	**4.7439**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.15 Pipeline - Continual Pavement Striping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.15 Pipeline - Continual Pavement Striping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	5.2000e-004	4.0000e-004	4.5400e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1867	1.1867	3.0000e-005	0.0000	1.1876
Total	**8.9000e-004**	**0.0122**	**7.7500e-003**	**4.0000e-005**	**2.0700e-003**	**3.0000e-005**	**2.1100e-003**	**5.7000e-004**	**3.0000e-005**	**6.0000e-004**	**0.0000**	**4.1447**	**4.1447**	**2.1000e-004**	**0.0000**	**4.1501**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1800e-003	0.0226	0.0239	4.0000e-005		1.2200e-003	1.2200e-003		1.1200e-003	1.1200e-003	0.0000	3.2167	3.2167	1.0400e-003	0.0000	3.2427
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.0800e-003**	**0.0226**	**0.0239**	**4.0000e-005**		**1.2200e-003**	**1.2200e-003**		**1.1200e-003**	**1.1200e-003**	**0.0000**	**3.2167**	**3.2167**	**1.0400e-003**	**0.0000**	**3.2427**

3.16 Pipeline - Final Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.9700e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4930	0.4930	3.0000e-005	0.0000	0.4938
Worker	1.3000e-004	1.0000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2967	0.2967	1.0000e-005	0.0000	0.2969
Total	**1.9000e-004**	**2.0700e-003**	**1.6700e-003**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7897**	**0.7897**	**4.0000e-005**	**0.0000**	**0.7906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2000e-004	0.0167	0.0269	4.0000e-005		2.1000e-004	2.1000e-004		1.9000e-004	1.9000e-004	0.0000	3.2167	3.2167	1.0400e-003	0.0000	3.2427
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.7200e-003**	**0.0167**	**0.0269**	**4.0000e-005**		**2.1000e-004**	**2.1000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**3.2167**	**3.2167**	**1.0400e-003**	**0.0000**	**3.2427**

3.16 Pipeline - Final Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.9700e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4930	0.4930	3.0000e-005	0.0000	0.4938
Worker	1.3000e-004	1.0000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2967	0.2967	1.0000e-005	0.0000	0.2969
Total	**1.9000e-004**	**2.0700e-003**	**1.6700e-003**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7897**	**0.7897**	**4.0000e-005**	**0.0000**	**0.7906**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Pipeline - Final Pavement Striping - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0493	0.0493	0.0000	0.0000	0.0494
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0198	0.0198	0.0000	0.0000	0.0198
Total	**2.0000e-005**	**2.1000e-004**	**1.3000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0691**	**0.0691**	**0.0000**	**0.0000**	**0.0692**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.5100e-003**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Pipeline - Final Pavement Striping - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	5.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0493	0.0493	0.0000	0.0000	0.0494
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0198	0.0198	0.0000	0.0000	0.0198
Total	**2.0000e-005**	**2.1000e-004**	**1.3000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0691**	**0.0691**	**0.0000**	**0.0000**	**0.0692**

3.18 WTP - Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8200e-003	0.0000	2.8200e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5150
Total	**0.0211**	**0.2078**	**0.1745**	**3.0000e-004**	**2.8200e-003**	**0.0105**	**0.0133**	**4.3000e-004**	**9.7900e-003**	**0.0102**	**0.0000**	**26.3471**	**26.3471**	**6.7100e-003**	**0.0000**	**26.5150**

3.18 WTP - Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	8.9900e-003	2.2300e-003	3.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.6363	2.6363	1.8000e-004	0.0000	2.6409
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.3000e-004	6.1000e-003	2.0000e-005	1.9200e-003	2.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6698	1.6698	5.0000e-005	0.0000	1.6709
Total	**9.9000e-004**	**9.5200e-003**	**8.3300e-003**	**5.0000e-005**	**2.5200e-003**	**5.0000e-005**	**2.5600e-003**	**6.8000e-004**	**3.0000e-005**	**7.1000e-004**	**0.0000**	**4.3061**	**4.3061**	**2.3000e-004**	**0.0000**	**4.3118**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-003	0.0000	1.1000e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.1068	0.1927	3.0000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5149
Total	**5.7900e-003**	**0.1068**	**0.1927**	**3.0000e-004**	**1.1000e-003**	**4.7000e-004**	**1.5700e-003**	**1.7000e-004**	**4.7000e-004**	**6.4000e-004**	**0.0000**	**26.3471**	**26.3471**	**6.7100e-003**	**0.0000**	**26.5149**

3.18 WTP - Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	8.9900e-003	2.2300e-003	3.0000e-005	6.0000e-004	3.0000e-005	6.3000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.6363	2.6363	1.8000e-004	0.0000	2.6409
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.3000e-004	6.1000e-003	2.0000e-005	1.9200e-003	2.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6698	1.6698	5.0000e-005	0.0000	1.6709
Total	**9.9000e-004**	**9.5200e-003**	**8.3300e-003**	**5.0000e-005**	**2.5200e-003**	**5.0000e-005**	**2.5600e-003**	**6.8000e-004**	**3.0000e-005**	**7.1000e-004**	**0.0000**	**4.3061**	**4.3061**	**2.3000e-004**	**0.0000**	**4.3118**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0606	0.0000	0.0606	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004		7.4200e-003	7.4200e-003		6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	**0.0154**	**0.1698**	**0.0922**	**2.1000e-004**	**0.0606**	**7.4200e-003**	**0.0680**	**0.0331**	**6.8300e-003**	**0.0400**	**0.0000**	**18.1027**	**18.1027**	**5.8500e-003**	**0.0000**	**18.2491**

3.19 WTP - Site Preparation and Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	0.0108	2.6800e-003	3.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.0000e-004	3.0000e-005	2.3000e-004	0.0000	3.1636	3.1636	2.2000e-004	0.0000	3.1690
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.6000e-004	4.1800e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1450	1.1450	3.0000e-005	0.0000	1.1458
Total	**8.2000e-004**	**0.0112**	**6.8600e-003**	**4.0000e-005**	**2.0300e-003**	**4.0000e-005**	**2.0800e-003**	**5.5000e-004**	**4.0000e-005**	**5.9000e-004**	**0.0000**	**4.3086**	**4.3086**	**2.5000e-004**	**0.0000**	**4.3148**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0236	0.0000	0.0236	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6900e-003	0.0636	0.1215	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	**3.6900e-003**	**0.0636**	**0.1215**	**2.1000e-004**	**0.0236**	**3.4000e-004**	**0.0240**	**0.0129**	**3.4000e-004**	**0.0133**	**0.0000**	**18.1027**	**18.1027**	**5.8500e-003**	**0.0000**	**18.2491**

3.19 WTP - Site Preparation and Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.4000e-004	0.0108	2.6800e-003	3.0000e-005	7.2000e-004	3.0000e-005	7.5000e-004	2.0000e-004	3.0000e-005	2.3000e-004	0.0000	3.1636	3.1636	2.2000e-004	0.0000	3.1690
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.6000e-004	4.1800e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1450	1.1450	3.0000e-005	0.0000	1.1458
Total	**8.2000e-004**	**0.0112**	**6.8600e-003**	**4.0000e-005**	**2.0300e-003**	**4.0000e-005**	**2.0800e-003**	**5.5000e-004**	**4.0000e-005**	**5.9000e-004**	**0.0000**	**4.3086**	**4.3086**	**2.5000e-004**	**0.0000**	**4.3148**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0329	0.3062	0.3933	6.4000e-004		0.0158	0.0158		0.0153	0.0153	0.0000	55.7594	55.7594	7.6600e-003	0.0000	55.9510
Total	**0.0329**	**0.3062**	**0.3933**	**6.4000e-004**		**0.0158**	**0.0158**		**0.0153**	**0.0153**	**0.0000**	**55.7594**	**55.7594**	**7.6600e-003**	**0.0000**	**55.9510**

3.20 WTP - Building Construction 3 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0125	3.3700e-003	3.0000e-005	8.4000e-004	2.0000e-005	8.6000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.2496	3.2496	1.9000e-004	0.0000	3.2545
Worker	3.2200e-003	2.4100e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8100e-003	2.3200e-003	6.0000e-005	2.3900e-003	0.0000	7.6142	7.6142	2.1000e-004	0.0000	7.6194
Total	**3.6100e-003**	**0.0149**	**0.0312**	**1.1000e-004**	**9.5800e-003**	**9.0000e-005**	**9.6700e-003**	**2.5600e-003**	**8.0000e-005**	**2.6500e-003**	**0.0000**	**10.8638**	**10.8638**	**4.0000e-004**	**0.0000**	**10.8739**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.2461	0.4255	6.4000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	55.7593	55.7593	7.6600e-003	0.0000	55.9509
Total	**0.0127**	**0.2461**	**0.4255**	**6.4000e-004**		**9.2000e-004**	**9.2000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**55.7593**	**55.7593**	**7.6600e-003**	**0.0000**	**55.9509**

3.20 WTP - Building Construction 3 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	0.0125	3.3700e-003	3.0000e-005	8.4000e-004	2.0000e-005	8.6000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	3.2496	3.2496	1.9000e-004	0.0000	3.2545
Worker	3.2200e-003	2.4100e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8100e-003	2.3200e-003	6.0000e-005	2.3900e-003	0.0000	7.6142	7.6142	2.1000e-004	0.0000	7.6194
Total	**3.6100e-003**	**0.0149**	**0.0312**	**1.1000e-004**	**9.5800e-003**	**9.0000e-005**	**9.6700e-003**	**2.5600e-003**	**8.0000e-005**	**2.6500e-003**	**0.0000**	**10.8638**	**10.8638**	**4.0000e-004**	**0.0000**	**10.8739**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0147	0.1806	0.1975	3.5000e-004		6.8000e-003	6.8000e-003		6.2500e-003	6.2500e-003	0.0000	30.7105	30.7105	9.9300e-003	0.0000	30.9588
Total	**0.0147**	**0.1806**	**0.1975**	**3.5000e-004**		**6.8000e-003**	**6.8000e-003**		**6.2500e-003**	**6.2500e-003**	**0.0000**	**30.7105**	**30.7105**	**9.9300e-003**	**0.0000**	**30.9588**

3.21 WTP - Building Construction 4 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0134	3.6200e-003	4.0000e-005	9.0000e-004	3.0000e-005	9.3000e-004	2.6000e-004	2.0000e-005	2.8000e-004	0.0000	3.4939	3.4939	2.1000e-004	0.0000	3.4992
Worker	4.6200e-003	3.4600e-003	0.0399	1.2000e-004	0.0125	1.0000e-004	0.0126	3.3300e-003	9.0000e-005	3.4200e-003	0.0000	10.9155	10.9155	3.0000e-004	0.0000	10.9231
Total	**5.0400e-003**	**0.0169**	**0.0435**	**1.6000e-004**	**0.0134**	**1.3000e-004**	**0.0136**	**3.5900e-003**	**1.1000e-004**	**3.7000e-003**	**0.0000**	**14.4095**	**14.4095**	**5.1000e-004**	**0.0000**	**14.4222**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2400e-003	0.1352	0.2415	3.5000e-004		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	30.7105	30.7105	9.9300e-003	0.0000	30.9588
Total	**7.2400e-003**	**0.1352**	**0.2415**	**3.5000e-004**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**30.7105**	**30.7105**	**9.9300e-003**	**0.0000**	**30.9588**

3.21 WTP - Building Construction 4 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0134	3.6200e-003	4.0000e-005	9.0000e-004	3.0000e-005	9.3000e-004	2.6000e-004	2.0000e-005	2.8000e-004	0.0000	3.4939	3.4939	2.1000e-004	0.0000	3.4992
Worker	4.6200e-003	3.4600e-003	0.0399	1.2000e-004	0.0125	1.0000e-004	0.0126	3.3300e-003	9.0000e-005	3.4200e-003	0.0000	10.9155	10.9155	3.0000e-004	0.0000	10.9231
Total	**5.0400e-003**	**0.0169**	**0.0435**	**1.6000e-004**	**0.0134**	**1.3000e-004**	**0.0136**	**3.5900e-003**	**1.1000e-004**	**3.7000e-003**	**0.0000**	**14.4095**	**14.4095**	**5.1000e-004**	**0.0000**	**14.4222**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0216	0.2069	0.2333	4.0000e-004		0.0106	0.0106		0.0101	0.0101	0.0000	34.5845	34.5845	5.9600e-003	0.0000	34.7335
Total	**0.0216**	**0.2069**	**0.2333**	**4.0000e-004**		**0.0106**	**0.0106**		**0.0101**	**0.0101**	**0.0000**	**34.5845**	**34.5845**	**5.9600e-003**	**0.0000**	**34.7335**

3.22 WTP - Building Construction 1 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.3500e-003	1.0100e-003	0.0117	4.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.1964	3.1964	9.0000e-005	0.0000	3.1986
Total	**1.5500e-003**	**7.2900e-003**	**0.0134**	**6.0000e-005**	**4.0900e-003**	**4.0000e-005**	**4.1300e-003**	**1.1000e-003**	**4.0000e-005**	**1.1300e-003**	**0.0000**	**4.8334**	**4.8334**	**1.9000e-004**	**0.0000**	**4.8381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7400e-003	0.1480	0.2595	4.0000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	34.5845	34.5845	5.9600e-003	0.0000	34.7335
Total	**7.7400e-003**	**0.1480**	**0.2595**	**4.0000e-004**		**5.8000e-004**	**5.8000e-004**		**5.8000e-004**	**5.8000e-004**	**0.0000**	**34.5845**	**34.5845**	**5.9600e-003**	**0.0000**	**34.7335**

3.22 WTP - Building Construction 1 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.3500e-003	1.0100e-003	0.0117	4.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.1964	3.1964	9.0000e-005	0.0000	3.1986
Total	**1.5500e-003**	**7.2900e-003**	**0.0134**	**6.0000e-005**	**4.0900e-003**	**4.0000e-005**	**4.1300e-003**	**1.1000e-003**	**4.0000e-005**	**1.1300e-003**	**0.0000**	**4.8334**	**4.8334**	**1.9000e-004**	**0.0000**	**4.8381**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1249	0.1472	2.6000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	22.3960	22.3960	7.2400e-003	0.0000	22.5771
Total	**9.9300e-003**	**0.1249**	**0.1472**	**2.6000e-004**		**4.4600e-003**	**4.4600e-003**		**4.1000e-003**	**4.1000e-003**	**0.0000**	**22.3960**	**22.3960**	**7.2400e-003**	**0.0000**	**22.5771**

3.23 WTP - Building Construction 2 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	2.1500e-003	1.6200e-003	0.0186	6.0000e-005	5.8500e-003	5.0000e-005	5.9000e-003	1.5500e-003	4.0000e-005	1.6000e-003	0.0000	5.0952	5.0952	1.4000e-004	0.0000	5.0987
Total	**2.4100e-003**	**9.9600e-003**	**0.0209**	**8.0000e-005**	**6.4100e-003**	**7.0000e-005**	**6.4800e-003**	**1.7100e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**7.2697**	**7.2697**	**2.7000e-004**	**0.0000**	**7.2765**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4200e-003	0.1051	0.1787	2.6000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	22.3960	22.3960	7.2400e-003	0.0000	22.5771
Total	**5.4200e-003**	**0.1051**	**0.1787**	**2.6000e-004**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**	**0.0000**	**22.3960**	**22.3960**	**7.2400e-003**	**0.0000**	**22.5771**

3.23 WTP - Building Construction 2 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	2.1500e-003	1.6200e-003	0.0186	6.0000e-005	5.8500e-003	5.0000e-005	5.9000e-003	1.5500e-003	4.0000e-005	1.6000e-003	0.0000	5.0952	5.0952	1.4000e-004	0.0000	5.0987
Total	**2.4100e-003**	**9.9600e-003**	**0.0209**	**8.0000e-005**	**6.4100e-003**	**7.0000e-005**	**6.4800e-003**	**1.7100e-003**	**5.0000e-005**	**1.7800e-003**	**0.0000**	**7.2697**	**7.2697**	**2.7000e-004**	**0.0000**	**7.2765**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0229	0.0355	5.0000e-005		8.0000e-004	8.0000e-004		7.4000e-004	7.4000e-004	0.0000	4.6930	4.6930	1.5200e-003	0.0000	4.7310
Total	**1.7300e-003**	**0.0229**	**0.0355**	**5.0000e-005**		**8.0000e-004**	**8.0000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**4.6930**	**4.6930**	**1.5200e-003**	**0.0000**	**4.7310**

3.24 WTP - Building Construction 5 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9100e-003	7.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7574	0.7574	5.0000e-005	0.0000	0.7586
Worker	5.0000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1832	1.1832	3.0000e-005	0.0000	1.1840
Total	**5.9000e-004**	**3.2900e-003**	**5.1000e-003**	**2.0000e-005**	**1.5600e-003**	**2.0000e-005**	**1.5700e-003**	**4.2000e-004**	**2.0000e-005**	**4.3000e-004**	**0.0000**	**1.9406**	**1.9406**	**8.0000e-005**	**0.0000**	**1.9425**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2000e-003	0.0234	0.0405	5.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	4.6930	4.6930	1.5200e-003	0.0000	4.7310
Total	**1.2000e-003**	**0.0234**	**0.0405**	**5.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**4.6930**	**4.6930**	**1.5200e-003**	**0.0000**	**4.7310**

3.24 WTP - Building Construction 5 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	2.9100e-003	7.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7574	0.7574	5.0000e-005	0.0000	0.7586
Worker	5.0000e-004	3.8000e-004	4.3200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1832	1.1832	3.0000e-005	0.0000	1.1840
Total	**5.9000e-004**	**3.2900e-003**	**5.1000e-003**	**2.0000e-005**	**1.5600e-003**	**2.0000e-005**	**1.5700e-003**	**4.2000e-004**	**2.0000e-005**	**4.3000e-004**	**0.0000**	**1.9406**	**1.9406**	**8.0000e-005**	**0.0000**	**1.9425**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0244	0.2653	0.3105	7.9000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	69.3689	69.3689	0.0224	0.0000	69.9298
Total	**0.0244**	**0.2653**	**0.3105**	**7.9000e-004**		**9.6100e-003**	**9.6100e-003**		**8.8400e-003**	**8.8400e-003**	**0.0000**	**69.3689**	**69.3689**	**0.0224**	**0.0000**	**69.9298**

3.25 WTP - Building Construction 6 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	4.3100e-003	3.2300e-003	0.0372	1.1000e-004	0.0117	9.0000e-005	0.0118	3.1100e-003	9.0000e-005	3.1900e-003	0.0000	10.1904	10.1904	2.8000e-004	0.0000	10.1974
Total	**4.5700e-003**	**0.0116**	**0.0395**	**1.3000e-004**	**0.0123**	**1.1000e-004**	**0.0124**	**3.2700e-003**	**1.0000e-004**	**3.3700e-003**	**0.0000**	**12.3649**	**12.3649**	**4.1000e-004**	**0.0000**	**12.3752**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.2677	0.4914	7.9000e-004		2.1000e-003	2.1000e-003		2.1000e-003	2.1000e-003	0.0000	69.3688	69.3688	0.0224	0.0000	69.9297
Total	**0.0138**	**0.2677**	**0.4914**	**7.9000e-004**		**2.1000e-003**	**2.1000e-003**		**2.1000e-003**	**2.1000e-003**	**0.0000**	**69.3688**	**69.3688**	**0.0224**	**0.0000**	**69.9297**

3.25 WTP - Building Construction 6 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	8.3400e-003	2.2500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	1.0000e-005	1.8000e-004	0.0000	2.1746	2.1746	1.3000e-004	0.0000	2.1778
Worker	4.3100e-003	3.2300e-003	0.0372	1.1000e-004	0.0117	9.0000e-005	0.0118	3.1100e-003	9.0000e-005	3.1900e-003	0.0000	10.1904	10.1904	2.8000e-004	0.0000	10.1974
Total	**4.5700e-003**	**0.0116**	**0.0395**	**1.3000e-004**	**0.0123**	**1.1000e-004**	**0.0124**	**3.2700e-003**	**1.0000e-004**	**3.3700e-003**	**0.0000**	**12.3649**	**12.3649**	**4.1000e-004**	**0.0000**	**12.3752**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.4800e-003	0.0940	0.1108	1.9000e-004		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003	0.0000	16.8599	16.8599	5.4500e-003	0.0000	16.9962
Total	**7.4800e-003**	**0.0940**	**0.1108**	**1.9000e-004**		**3.3600e-003**	**3.3600e-003**		**3.0900e-003**	**3.0900e-003**	**0.0000**	**16.8599**	**16.8599**	**5.4500e-003**	**0.0000**	**16.9962**

3.26 WTP - Building Construction 7 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.0800e-003	8.1000e-004	9.3400e-003	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5571	2.5571	7.0000e-005	0.0000	2.5589
Total	**1.2800e-003**	**7.0900e-003**	**0.0110**	**5.0000e-005**	**3.3600e-003**	**3.0000e-005**	**3.3900e-003**	**9.0000e-004**	**3.0000e-005**	**9.3000e-004**	**0.0000**	**4.1942**	**4.1942**	**1.7000e-004**	**0.0000**	**4.1984**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0800e-003	0.0792	0.1345	1.9000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	16.8599	16.8599	5.4500e-003	0.0000	16.9962
Total	**4.0800e-003**	**0.0792**	**0.1345**	**1.9000e-004**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**16.8599**	**16.8599**	**5.4500e-003**	**0.0000**	**16.9962**

3.26 WTP - Building Construction 7 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2800e-003	1.7000e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6370	1.6370	1.0000e-004	0.0000	1.6395
Worker	1.0800e-003	8.1000e-004	9.3400e-003	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5571	2.5571	7.0000e-005	0.0000	2.5589
Total	**1.2800e-003**	**7.0900e-003**	**0.0110**	**5.0000e-005**	**3.3600e-003**	**3.0000e-005**	**3.3900e-003**	**9.0000e-004**	**3.0000e-005**	**9.3000e-004**	**0.0000**	**4.1942**	**4.1942**	**1.7000e-004**	**0.0000**	**4.1984**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-003	0.0516	0.0665	1.1000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	9.3619	9.3619	6.1000e-004	0.0000	9.3772
Total	**0.0447**	**0.0516**	**0.0665**	**1.1000e-004**		**3.0000e-003**	**3.0000e-003**		**3.0000e-003**	**3.0000e-003**	**0.0000**	**9.3619**	**9.3619**	**6.1000e-004**	**0.0000**	**9.3772**

3.27 WTP - Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.1600e-003	1.3900e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3438	1.3438	8.0000e-005	0.0000	1.3458
Worker	1.3300e-003	1.0000e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1487	3.1487	9.0000e-005	0.0000	3.1509
Total	**1.4900e-003**	**6.1600e-003**	**0.0129**	**4.0000e-005**	**3.9700e-003**	**4.0000e-005**	**4.0100e-003**	**1.0600e-003**	**4.0000e-005**	**1.1000e-003**	**0.0000**	**4.4925**	**4.4925**	**1.7000e-004**	**0.0000**	**4.4967**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-003	0.0389	0.0672	1.1000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	9.3619	9.3619	6.1000e-004	0.0000	9.3772
Total	**0.0392**	**0.0389**	**0.0672**	**1.1000e-004**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**9.3619**	**9.3619**	**6.1000e-004**	**0.0000**	**9.3772**

3.27 WTP - Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.1600e-003	1.3900e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3438	1.3438	8.0000e-005	0.0000	1.3458
Worker	1.3300e-003	1.0000e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1487	3.1487	9.0000e-005	0.0000	3.1509
Total	**1.4900e-003**	**6.1600e-003**	**0.0129**	**4.0000e-005**	**3.9700e-003**	**4.0000e-005**	**4.0100e-003**	**1.0600e-003**	**4.0000e-005**	**1.1000e-003**	**0.0000**	**4.4925**	**4.4925**	**1.7000e-004**	**0.0000**	**4.4967**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1700e-003	0.0148	0.0205	3.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	2.8937	2.8937	1.7000e-004	0.0000	2.8980
Total	**0.0137**	**0.0148**	**0.0205**	**3.0000e-005**		**8.0000e-004**	**8.0000e-004**		**8.0000e-004**	**8.0000e-004**	**0.0000**	**2.8937**	**2.8937**	**1.7000e-004**	**0.0000**	**2.8980**

3.27 WTP - Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.2000e-003	3.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4024	0.4024	2.0000e-005	0.0000	0.4029
Worker	3.9000e-004	2.8000e-004	3.2700e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.9376	0.9376	2.0000e-005	0.0000	0.9382
Total	**4.3000e-004**	**1.4800e-003**	**3.6600e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.3400**	**1.3400**	**4.0000e-005**	**0.0000**	**1.3411**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	0.0120	0.0208	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.8937	2.8937	1.7000e-004	0.0000	2.8980
Total	**0.0121**	**0.0120**	**0.0208**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.8937**	**2.8937**	**1.7000e-004**	**0.0000**	**2.8980**

3.27 WTP - Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.2000e-003	3.9000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4024	0.4024	2.0000e-005	0.0000	0.4029
Worker	3.9000e-004	2.8000e-004	3.2700e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.9376	0.9376	2.0000e-005	0.0000	0.9382
Total	**4.3000e-004**	**1.4800e-003**	**3.6600e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**1.3400**	**1.3400**	**4.0000e-005**	**0.0000**	**1.3411**

3.28 WTP - Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2900e-003	0.0440	0.0546	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	7.4005	7.4005	2.3900e-003	0.0000	7.4603
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.1900e-003**	**0.0440**	**0.0546**	**8.0000e-005**		**2.2900e-003**	**2.2900e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**7.4005**	**7.4005**	**2.3900e-003**	**0.0000**	**7.4603**

3.28 WTP - Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.3100e-003	1.1600e-003	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1239	1.1239	7.0000e-005	0.0000	1.1256
Worker	5.6000e-004	4.2000e-004	4.8100e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3167	1.3167	4.0000e-005	0.0000	1.3176
Total	**6.9000e-004**	**4.7300e-003**	**5.9700e-003**	**2.0000e-005**	**1.8000e-003**	**2.0000e-005**	**1.8200e-003**	**4.8000e-004**	**2.0000e-005**	**5.0000e-004**	**0.0000**	**2.4407**	**2.4407**	**1.1000e-004**	**0.0000**	**2.4432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7700e-003	0.0371	0.0618	8.0000e-005		4.0000e-004	4.0000e-004		3.8000e-004	3.8000e-004	0.0000	7.4005	7.4005	2.3900e-003	0.0000	7.4603
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.6700e-003**	**0.0371**	**0.0618**	**8.0000e-005**		**4.0000e-004**	**4.0000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**7.4005**	**7.4005**	**2.3900e-003**	**0.0000**	**7.4603**

3.28 WTP - Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	4.3100e-003	1.1600e-003	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1239	1.1239	7.0000e-005	0.0000	1.1256
Worker	5.6000e-004	4.2000e-004	4.8100e-003	1.0000e-005	1.5100e-003	1.0000e-005	1.5200e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3167	1.3167	4.0000e-005	0.0000	1.3176
Total	**6.9000e-004**	**4.7300e-003**	**5.9700e-003**	**2.0000e-005**	**1.8000e-003**	**2.0000e-005**	**1.8200e-003**	**4.8000e-004**	**2.0000e-005**	**5.0000e-004**	**0.0000**	**2.4407**	**2.4407**	**1.1000e-004**	**0.0000**	**2.4432**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	4.7900e-003	8.9200e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.1000e-004	2.1000e-004	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**6.2000e-004**	**4.7900e-003**	**8.9200e-003**	**1.0000e-005**	**1.1000e-004**	**2.3000e-004**	**3.4000e-004**	**1.0000e-005**	**2.1000e-004**	**2.2000e-004**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.29 Well - SM-11 Grading - Well Pad - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	3.0300e-003	1.0400e-003	1.0000e-005	3.1000e-004	1.0000e-005	3.1000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.2994	1.2994	9.0000e-005	0.0000	1.3015
Vendor	6.0000e-005	2.1300e-003	6.8000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7101	0.7101	4.0000e-005	0.0000	0.7110
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**3.8000e-004**	**5.3200e-003**	**3.6400e-003**	**3.0000e-005**	**1.1600e-003**	**2.0000e-005**	**1.1600e-003**	**3.0000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**2.5609**	**2.5609**	**1.4000e-004**	**0.0000**	**2.5644**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	5.6900e-003	9.8000e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2488	1.2488	3.8000e-004	0.0000	1.2583
Total	**1.6000e-004**	**5.6900e-003**	**9.8000e-003**	**1.0000e-005**	**4.0000e-005**	**2.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2488**	**1.2488**	**3.8000e-004**	**0.0000**	**1.2583**

3.29 Well - SM-11 Grading - Well Pad - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	3.0300e-003	1.0400e-003	1.0000e-005	3.1000e-004	1.0000e-005	3.1000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.2994	1.2994	9.0000e-005	0.0000	1.3015
Vendor	6.0000e-005	2.1300e-003	6.8000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	6.0000e-005	0.0000	0.7101	0.7101	4.0000e-005	0.0000	0.7110
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**3.8000e-004**	**5.3200e-003**	**3.6400e-003**	**3.0000e-005**	**1.1600e-003**	**2.0000e-005**	**1.1600e-003**	**3.0000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**2.5609**	**2.5609**	**1.4000e-004**	**0.0000**	**2.5644**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	0.0129	0.0235	5.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	4.1331	4.1331	1.3400e-003	0.0000	4.1665
Total	**1.5200e-003**	**0.0129**	**0.0235**	**5.0000e-005**		**5.8000e-004**	**5.8000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**4.1331**	**4.1331**	**1.3400e-003**	**0.0000**	**4.1665**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7700e-003	5.7000e-004	1.0000e-005	1.6000e-004	0.0000	1.6000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5917	0.5917	3.0000e-005	0.0000	0.5925
Worker	3.8000e-004	2.7000e-004	3.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9192	0.9192	2.0000e-005	0.0000	0.9198
Total	**4.3000e-004**	**2.0400e-003**	**3.7700e-003**	**2.0000e-005**	**1.2600e-003**	**1.0000e-005**	**1.2600e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.5110**	**1.5110**	**5.0000e-005**	**0.0000**	**1.5123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4000e-004	0.0182	0.0324	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.1331	4.1331	1.3400e-003	0.0000	4.1665
Total	**6.4000e-004**	**0.0182**	**0.0324**	**5.0000e-005**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**4.1331**	**4.1331**	**1.3400e-003**	**0.0000**	**4.1665**

3.30 Well - SM-11 Building Construction - Well Equipping - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7700e-003	5.7000e-004	1.0000e-005	1.6000e-004	0.0000	1.6000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5917	0.5917	3.0000e-005	0.0000	0.5925
Worker	3.8000e-004	2.7000e-004	3.2000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9192	0.9192	2.0000e-005	0.0000	0.9198
Total	**4.3000e-004**	**2.0400e-003**	**3.7700e-003**	**2.0000e-005**	**1.2600e-003**	**1.0000e-005**	**1.2600e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.5110**	**1.5110**	**5.0000e-005**	**0.0000**	**1.5123**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1000e-004	5.8100e-003	0.0122	2.0000e-005		2.8000e-004	2.8000e-004		2.6000e-004	2.6000e-004	0.0000	1.7013	1.7013	5.5000e-004	0.0000	1.7151
Total	**7.1000e-004**	**5.8100e-003**	**0.0122**	**2.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**1.7013**	**1.7013**	**5.5000e-004**	**0.0000**	**1.7151**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.0600e-003	3.4000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3550	0.3550	2.0000e-005	0.0000	0.3555
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**2.6000e-004**	**1.2200e-003**	**2.2600e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9066**	**0.9066**	**3.0000e-005**	**0.0000**	**0.9074**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4000e-004	8.5400e-003	0.0147	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.7013	1.7013	5.5000e-004	0.0000	1.7151
Total	**2.4000e-004**	**8.5400e-003**	**0.0147**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.7013**	**1.7013**	**5.5000e-004**	**0.0000**	**1.7151**

3.31 Well - SM-11 Building Construction - Artistic Fencing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.0600e-003	3.4000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3550	0.3550	2.0000e-005	0.0000	0.3555
Worker	2.3000e-004	1.6000e-004	1.9200e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5515	0.5515	1.0000e-005	0.0000	0.5519
Total	**2.6000e-004**	**1.2200e-003**	**2.2600e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.6000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9066**	**0.9066**	**3.0000e-005**	**0.0000**	**0.9074**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Unmitigated	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Industrial Park	2.00	0.00	0.00	10,400	10,400
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	2.00	0.00	0.00	10,400	10,400

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	20.00	20.00	20.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8445	59.8445	1.5300e-003	3.2000e-004	59.9774
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8445	59.8445	1.5300e-003	3.2000e-004	59.9774
NaturalGas Mitigated	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
NaturalGas Unmitigated	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	190050	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.0200e-003**	**9.3200e-003**	**7.8300e-003**	**6.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**10.1418**	**10.1418**	**1.9000e-004**	**1.9000e-004**	**10.2021**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	190050	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.0200e-003**	**9.3200e-003**	**7.8300e-003**	**6.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**10.1418**	**10.1418**	**1.9000e-004**	**1.9000e-004**	**10.2021**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	116550	59.8445	1.5300e-003	3.2000e-004	59.9774
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**59.8445**	**1.5300e-003**	**3.2000e-004**	**59.9774**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	116550	59.8445	1.5300e-003	3.2000e-004	59.9774
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**59.8445**	**1.5300e-003**	**3.2000e-004**	**59.9774**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2592					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2645**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2592					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2645**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.0932	3.3700e-003	1.9500e-003	17.7598
Unmitigated	17.0932	3.3700e-003	1.9500e-003	17.7598

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.42813 / 0	17.0932	3.3700e-003	1.9500e-003	17.7598
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.0932**	**3.3700e-003**	**1.9500e-003**	**17.7598**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.42813 / 0	17.0932	3.3700e-003	1.9500e-003	17.7598
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**17.0932**	**3.3700e-003**	**1.9500e-003**	**17.7598**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.3215	0.0781	0.0000	3.2739
Unmitigated	2.6429	0.1562	0.0000	6.5478

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	13.02	2.6429	0.1562	0.0000	6.5478
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**2.6429**	**0.1562**	**0.0000**	**6.5478**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	6.51	1.3215	0.0781	0.0000	3.2739
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**1.3215**	**0.0781**	**0.0000**	**3.2739**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Santa Monica - Olympic Well Field Restoration and Arcadia WTP Expansion Project
Electricity GHG Emissions Calculations

Equation:

Electricity Emissions =Σi (Utility x Energy Intensity)

Where:

Utility	Carbon intensity of Local Utility (CO2E/kWh)
Energy Intensity	Electricity energy intensity for land use

Assumptions

Project Area	**Increase in Electricity Demand (kwH/year)**
Olympic AWTP and Arcadia WTP site	3,355,000
Wells	1,621,000
Total	**4,976,000**

Utility Company	**CO2 Intensity Factor lb/MWhr**	**CH4 Intensity Factora**	**N2O Intensity**
Los Angeles Department of Water & Power	1132	0.029	0.00617
Southern California Edison	601.585	0.025	0.00528

LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value). CH4 and N2O Emission factors for GHGs from CalEEMod User's Guide, Version 2016.3.2 Appendix D for LADWP.

Emissions Calculations:

Olympic AWTP and Arcadia WTP site

	Unit	**CO2**	**CH4**	**N2O**	**CO2E**
Local Utility Carbon intensity (LADWP)	CO2E/MWh	1132	0.029	0.00617	
Electricity Consumed - kWh	kWh/year	3,355,000	3,355,000	3,355,000	
Electricity Consumed - MWh	MWh/year	3355	3355	3355	
Electricity Emissions	pounds/year	3,797,860.00	97.30	20.70	3,806,461.08
	MT/year	1,722.68	0.04	0.01	1,726.58

Olympic AWTP and Arcadia WTP site

	Unit	**CO2**	**CH4**	**N2O**	**CO2E**
Local Utility Carbon intensity (SCE)	CO2E/MWh	601.585	0.025	0.00528	
Electricity Consumed - kWh	kWh/year	1,621,000	1,621,000	1,621,000	
Electricity Consumed - MWh	MWh/year	1621	1621	1621	
Electricity Emissions	pounds/year	975,169.29	40.53	8.56	978,732.96
	MT/year	442.33	0.02	0.00	443.95

Total **2,170.53**

Notes:

The CO2 equivalent for a gas is derived by multiplying the mass of the gas by the associated GWP, such that metric tons of CO2E = (metric tons of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CH4 is 25, which means that emissions of 1 metric ton of CH4 are equivalent to emissions of 25 metric tons of CO2, and the GWP for N2O is 298, based on the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report.

Santa Monica - Olympic Well Field Restoration and Arcadia WTP Expansion Project

Project Water Capacity

Existing Capacity	10,000,000	gallons/day
Existing Production	8,900,000	gallons/day
Proposed Capacity	13,000,000	gallons/day
Proposed Production	12,000,000	gallons/day
Net Increase (Proposed Production - Existing Capacity)	2,000,000	gallons/day
	365	days/year
	730,000,000	gallons/year
Net Increase in Capacity	730	MG/year

GHG Intensity Factors (LADWP)

GHG	Units	Year 2024
CO_2	lb/MWh[1, 2]	1,132
CH_4	lb/MWh[1, 2]	0.029
N_2O	lb/MWh[1, 2]	0.006

Water Electricity Intensity Factors

Process	Units	
Supply	kwh/MG	9,727
Treat	kwh/MG	111
Distribute	kwh/MG	1,272
Wastewater Treatment	kwh/MG	1,911
Total	**kwh/MG**	**13,021**

GHG Emissions

	Units	Potable Water - CalEEMod Default Conditions (Supplied from NorCal)	Potable Water - Supplied from Project	Net Change
Electricity Intensity Factor				
Supply	kwh/MG	9,727	-	
Treat	kwh/MG	111	111	
Distribute	kwh/MG	1,272	1,272	
Wastewater Treatment	kwh/MG	1,911	1,911	
Total	**kwh/MG**	**13,021**	**3,294**	
Water Consumption	**MG/yr**	**730**	**730**	
Electricity Usage	**kwh/yr**	**9,505,330**	**2,404,620**	**7,100,710**
GHG Emissions				
CO_2E	metric tons/yr	**4,891.50**	**1,237.43**	**3,654.07**
CO_2	metric tons/yr	4,880.67	1,234.69	3,645.98
CH_4	metric tons/yr	0.13	0.03	0.09
N_2O	metric tons/yr	0.03	0.01	0.02

Notes:

1. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value). CH4 and N2O Emission factors for GHGs from CalEEMod User's Guide, Version 2016.3.2 Appendix D for LADWP.

2. The CO2 equivalent for a gas is derived by multiplying the mass of the gas by the associated GWP, such that metric tons of CO2E = (metric tons of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CH4 is 25, which means that emissions of 1 metric ton of CH4 are equivalent to emissions of 25 metric tons of CO2, and the GWP for N2O is 298, based on the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report.

Arcadia WTP Expansion Project Construction Health Risk Assessment

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	10.50	1000sqft	0.24	10,500.00	0
Industrial Park	1.00	1000sqft	0.00	1,000.00	0
User Defined Industrial	0.74	User Defined Unit	0.74	32,400.00	0
User Defined Industrial	0.63	User Defined Unit	0.63	27,300.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	30,056.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1132	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See Section 1.0 Project Characteristics. Project within SCE (well field and pipeline) and LADWP (WTP) jurisdiction. LADWP CO2 intensity factor of 1,132 assumed based on 2016 Power Integrated Resource Plan (2015 value).

Land Use - See 1.1 Land Usage for surrogate land use assumed for modeling.

Construction Phase - Applicant-provided schedule.

Off-road Equipment - Pipeline - Site Preparation: Applicant-provided data.

Off-road Equipment - WTP - Demolition: Applicant-provided data.

Off-road Equipment - WTP - Site Preparation and Grading: Applicant-provided data.
Off-road Equipment - WTP - Building Construction 1: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 2: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 3: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 4: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 5: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 6: Applicant-provided data.

Off-road Equipment - WTP - Building Construction 7: Applicant-provided data.

Off-road Equipment - WTP - Paving: Applicant-provided data.

Off-road Equipment - WTP - Architectural Coating: Applicant-provided data.

Trips and VMT - Applicant-provided trip information. Assumes 1,000 feet (0.19 miles) trip length for vendor and haul truck trips.

On-road Fugitive Dust - CalEEMod default values.

Demolition - Demolition: WTP - Demolition. 5,725 SF total.

Grading - Applicant-provided grading information.

Architectural Coating - Calculated based on square footage of new buildings and asphalt surface striping.

Vehicle Trips - No net new worker operational trips anticipated. Minimal, infrequent net new truck deliveries anticipated (maximum 2 one-way trips per day).

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Vehicle Emission Factors - CalEEMod default values.

Road Dust - Operational mobile source emissions not estimated.

Woodstoves - No hearths.

Consumer Products - CalEEMod default values.

Area Coating - Operational architectural coating for 10,500 SF of building (conservative as some surfaces would not require coating).

Landscape Equipment - No increase in landscape maintenance activity from existing conditions.

Energy Use - CalEEMod default values for General Light Industry.

Water And Wastewater - CalEEMod default values for water use. 100% aerobic.

Solid Waste - CalEEMod default values.

Construction Off-road Equipment Mitigation - Off-road Equipment: All equipment over 50 HP assumed to meet Tier 4 Interim standards. Water Exposed Area,

Frequency: 2 times per day.
Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No area mitigation.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water mitigation.

Waste Mitigation - Percent Reduction in Waste Disposed: 50%. Waste diversion consistent with Assembly Bill 939.

Operational Off-Road Equipment - No operational offroad equipment.

Fleet Mix - Industrial Park: 50% MHDT/50% HHDT.

Stationary Sources - User Defined - No operational stationary sources.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	35,600.00	5,250.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	106,800.00	15,750.00
tblArchitecturalCoating	ConstArea_Parking	1,803.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	35600	5250
tblAreaCoating	Area_Nonresidential_Interior	106800	15750
tblAreaCoating	Area_Parking	1803	1944
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstructionPhase	NumDays	220.00	89.00
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tblConstructionPhase	NumDays	220.00	89.00

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tblConstructionPhase	NumDays	220.00	67.00
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tblConstructionPhase	NumDays	10.00	23.00
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tblEnergyUse	NT24E	4.62	0.00
tblEnergyUse	NT24NG	0.39	0.00
tblEnergyUse	T24E	4.60	0.00
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tblFleetMix	LDT2	0.21	0.00
tblFleetMix	LHD1	0.02	0.00
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tblFleetMix	UBUS	2.0710e-003	0.00
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tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	0.00	27,300.00
tblLandUse	LandUseSquareFeet	0.00	32,400.00
tblLandUse	LotAcreage	0.02	0.00

tblLandUse	LotAcreage	0.00	0.63
tblLandUse	LotAcreage	0.00	0.74
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tblOffRoadEquipment	UsageHours	6.00	8.00
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tblTripsAndVMT	VendorTripLength	6.90	0.19

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tblWater	IndoorWaterUseRate	2,428,125.00	2,358,750.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2002	1.7222	1.8269	3.4300e-003	0.0636	0.0746	0.1381	0.0336	0.0702	0.1038	0.0000	300.4906	300.4906	0.0765	0.0000	302.4020
2023	0.0137	0.0156	0.0207	3.0000e-005	0.0000	8.0000e-004	8.1000e-004	0.0000	8.0000e-004	8.0000e-004	0.0000	2.9865	2.9865	1.8000e-004	0.0000	2.9911
Maximum	**0.2002**	**1.7222**	**1.8269**	**3.4300e-003**	**0.0636**	**0.0746**	**0.1381**	**0.0336**	**0.0702**	**0.1038**	**0.0000**	**300.4906**	**300.4906**	**0.0765**	**0.0000**	**302.4020**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1041	1.2990	2.2279	3.4300e-003	0.0287	7.5000e-003	0.0362	0.0152	7.5000e-003	0.0227	0.0000	300.4902	300.4902	0.0765	0.0000	302.4017
2023	0.0121	0.0129	0.0210	3.0000e-005	0.0000	5.0000e-005	5.0000e-005	0.0000	5.0000e-005	5.0000e-005	0.0000	2.9865	2.9865	1.8000e-004	0.0000	2.9911
Maximum	**0.1041**	**1.2990**	**2.2279**	**3.4300e-003**	**0.0287**	**7.5000e-003**	**0.0362**	**0.0152**	**7.5000e-003**	**0.0227**	**0.0000**	**300.4902**	**300.4902**	**0.0765**	**0.0000**	**302.4017**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**45.65**	**24.51**	**-21.71**	**0.00**	**54.86**	**89.98**	**73.91**	**54.94**	**89.36**	**78.29**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
8	11-13-2021	2-12-2022	0.2335	0.1065
9	2-13-2022	5-12-2022	0.7148	0.4850
10	5-13-2022	8-12-2022	0.6027	0.5050
11	8-13-2022	11-12-2022	0.2670	0.2217
12	11-13-2022	2-12-2023	0.1234	0.1016
		Highest	0.7148	0.5050

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	69.9863	69.9863	1.7300e-003	5.0000e-004	70.1794
Mobile	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Waste						0.0000	0.0000		0.0000	0.0000	2.5678	0.0000	2.5678	0.1518	0.0000	6.3617
Water						0.0000	0.0000		0.0000	0.0000	0.8345	15.7702	16.6048	3.2800e-003	1.9000e-003	17.2524
Total	**0.2666**	**0.0383**	**0.0187**	**2.2000e-004**	**4.7300e-003**	**7.7000e-004**	**5.4900e-003**	**1.3600e-003**	**7.6000e-004**	**2.1300e-003**	**3.4024**	**101.0196**	**104.4219**	**0.1574**	**2.4000e-003**	**109.0730**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	69.9863	69.9863	1.7300e-003	5.0000e-004	70.1794
Mobile	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Waste						0.0000	0.0000		0.0000	0.0000	1.2839	0.0000	1.2839	0.0759	0.0000	3.1809
Water						0.0000	0.0000		0.0000	0.0000	0.8345	15.7702	16.6048	3.2800e-003	1.9000e-003	17.2524
Total	**0.2666**	**0.0383**	**0.0187**	**2.2000e-004**	**4.7300e-003**	**7.7000e-004**	**5.4900e-003**	**1.3600e-003**	**7.6000e-004**	**2.1300e-003**	**2.1185**	**101.0196**	**103.1380**	**0.0816**	**2.4000e-003**	**105.8922**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**37.74**	**0.00**	**1.23**	**48.20**	**0.00**	**2.92**

3.0 Construction Detail

Construction Phase

Arcadia WTP Expansion Project Construction Health Risk Assessment - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	WTP - Demolition	Demolition	1/21/2022	2/24/2022	5	25	
2	WTP - Site Preparation and Grading	Grading	2/1/2022	2/28/2022	5	20	
3	WTP - Building Construction 3	Building Construction	3/1/2022	9/1/2022	5	133	
4	WTP - Building Construction 4	Building Construction	3/1/2022	9/15/2022	5	143	
5	WTP - Building Construction 1	Building Construction	3/1/2022	6/1/2022	5	67	
6	WTP - Building Construction 2	Building Construction	3/1/2022	7/1/2022	5	89	
7	WTP - Building Construction 5	Building Construction	4/1/2022	5/13/2022	5	31	
8	WTP - Building Construction 6	Building Construction	5/1/2022	9/1/2022	5	89	
9	WTP - Building Construction 7	Building Construction	8/1/2022	11/1/2022	5	67	
10	WTP - Architectural Coating	Architectural Coating	10/15/2022	1/24/2023	5	72	
11	WTP - Paving	Paving	11/1/2022	12/1/2022	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,750; Non-Residential Outdoor: 5,250; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
WTP - Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
WTP - Demolition	Rubber Tired Dozers	1	8.00	247	0.40
WTP - Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
WTP - Site Preparation and Grading	Graders	1	8.00	187	0.41
WTP - Site Preparation and Grading	Rubber Tired Dozers	1	8.00	247	0.40

WTP - Site Preparation and Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WTP - Building Construction 3	Cranes	0	8.00	231	0.29
WTP - Building Construction 3	Forklifts	0	7.00	89	0.20
WTP - Building Construction 3	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 3	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 3	Welders	0	8.00	46	0.45
WTP - Building Construction 4	Cranes	1	2.00	231	0.29
WTP - Building Construction 4	Forklifts	0	7.00	89	0.20
WTP - Building Construction 4	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 4	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 4	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 4	Welders	0	8.00	46	0.45
WTP - Building Construction 1	Cranes	1	2.00	231	0.29
WTP - Building Construction 1	Forklifts	1	4.00	89	0.20
WTP - Building Construction 1	Generator Sets	1	8.00	84	0.74
WTP - Building Construction 1	Tractors/Loaders/Backhoes	1	8.00	97	0.37
WTP - Building Construction 1	Welders	0	8.00	46	0.45
WTP - Building Construction 2	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 2	Cranes	1	2.00	231	0.29
WTP - Building Construction 2	Forklifts	0	7.00	89	0.20
WTP - Building Construction 2	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 2	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 2	Welders	0	8.00	46	0.45
WTP - Building Construction 5	Cranes	0	8.00	231	0.29
WTP - Building Construction 5	Forklifts	0	7.00	89	0.20
WTP - Building Construction 5	Generator Sets	0	8.00	84	0.74

WTP - Building Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 5	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 5	Welders	0	8.00	46	0.45
WTP - Building Construction 6	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 6	Bore/Drill Rigs	1	8.00	221	0.50
WTP - Building Construction 6	Cranes	1	2.00	231	0.29
WTP - Building Construction 6	Excavators	1	4.00	158	0.38
WTP - Building Construction 6	Forklifts	0	7.00	89	0.20
WTP - Building Construction 6	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 6	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 6	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 6	Welders	0	8.00	46	0.45
WTP - Building Construction 7	Aerial Lifts	1	4.00	63	0.31
WTP - Building Construction 7	Cranes	1	2.00	231	0.29
WTP - Building Construction 7	Forklifts	0	7.00	89	0.20
WTP - Building Construction 7	Generator Sets	0	8.00	84	0.74
WTP - Building Construction 7	Rough Terrain Forklifts	1	8.00	100	0.40
WTP - Building Construction 7	Tractors/Loaders/Backhoes	0	6.00	97	0.37
WTP - Building Construction 7	Welders	0	8.00	46	0.45
WTP - Architectural Coating	Air Compressors	1	8.00	78	0.48
WTP - Paving	Cement and Mortar Mixers	0	8.00	9	0.56
WTP - Paving	Pavers	1	8.00	130	0.42
WTP - Paving	Paving Equipment	0	8.00	132	0.36
WTP - Paving	Rollers	1	8.00	80	0.38
WTP - Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Arcadia WTP Expansion Project Construction Health Risk Assessment - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
WTP - Demolition	5	0.00	0.00	70.00	14.70	6.90	0.19	LD_Mix	HDT_Mix	HHDT
WTP - Site Preparation and Gradi	4	0.00	0.00	84.00	14.70	6.90	0.19	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 3	2	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 4	2	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 1	4	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 2	3	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 5	1	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 6	5	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Building Construction 7	3	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Architectural Coating	1	0.00	2.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
WTP - Paving	2	0.00	4.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 WTP - Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8200e-003	0.0000	2.8200e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5150
Total	**0.0211**	**0.2078**	**0.1745**	**3.0000e-004**	**2.8200e-003**	**0.0105**	**0.0133**	**4.3000e-004**	**9.7900e-003**	**0.0102**	**0.0000**	**26.3471**	**26.3471**	**6.7100e-003**	**0.0000**	**26.5150**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.1700e-003	4.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.3624	0.3624	5.0000e-005	0.0000	0.3636
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.0000e-005**	**3.1700e-003**	**4.7000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3624**	**0.3624**	**5.0000e-005**	**0.0000**	**0.3636**

3.2 WTP - Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2700e-003	0.0000	1.2700e-003	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.1068	0.1927	3.0000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5149
Total	**5.7900e-003**	**0.1068**	**0.1927**	**3.0000e-004**	**1.2700e-003**	**4.7000e-004**	**1.7400e-003**	**1.9000e-004**	**4.7000e-004**	**6.6000e-004**	**0.0000**	**26.3471**	**26.3471**	**6.7100e-003**	**0.0000**	**26.5149**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.1700e-003	4.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.3624	0.3624	5.0000e-005	0.0000	0.3636
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.0000e-005**	**3.1700e-003**	**4.7000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3624**	**0.3624**	**5.0000e-005**	**0.0000**	**0.3636**

3.3 WTP - Site Preparation and Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0606	0.0000	0.0606	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004		7.4200e-003	7.4200e-003		6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	**0.0154**	**0.1698**	**0.0922**	**2.1000e-004**	**0.0606**	**7.4200e-003**	**0.0680**	**0.0331**	**6.8300e-003**	**0.0400**	**0.0000**	**18.1027**	**18.1027**	**5.8500e-003**	**0.0000**	**18.2491**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.8000e-003	5.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.4348	0.4348	6.0000e-005	0.0000	0.4364
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.0000e-005**	**3.8000e-003**	**5.7000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.4348**	**0.4348**	**6.0000e-005**	**0.0000**	**0.4364**

3.3 WTP - Site Preparation and Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0273	0.0000	0.0273	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6900e-003	0.0636	0.1215	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	**3.6900e-003**	**0.0636**	**0.1215**	**2.1000e-004**	**0.0273**	**3.4000e-004**	**0.0276**	**0.0149**	**3.4000e-004**	**0.0153**	**0.0000**	**18.1027**	**18.1027**	**5.8500e-003**	**0.0000**	**18.2491**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.8000e-003	5.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.4348	0.4348	6.0000e-005	0.0000	0.4364
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.0000e-005**	**3.8000e-003**	**5.7000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.4348**	**0.4348**	**6.0000e-005**	**0.0000**	**0.4364**

3.4 WTP - Building Construction 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0329	0.3062	0.3933	6.4000e-004		0.0158	0.0158		0.0153	0.0153	0.0000	55.7594	55.7594	7.6600e-003	0.0000	55.9510
Total	**0.0329**	**0.3062**	**0.3933**	**6.4000e-004**		**0.0158**	**0.0158**		**0.0153**	**0.0153**	**0.0000**	**55.7594**	**55.7594**	**7.6600e-003**	**0.0000**	**55.9510**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	7.6000e-003	1.8700e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.7590	0.7590	1.1000e-004	0.0000	0.7616
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-004**	**7.6000e-003**	**1.8700e-003**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.7590**	**0.7590**	**1.1000e-004**	**0.0000**	**0.7616**

3.4 WTP - Building Construction 3 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.2461	0.4255	6.4000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	55.7593	55.7593	7.6600e-003	0.0000	55.9509
Total	**0.0127**	**0.2461**	**0.4255**	**6.4000e-004**		**9.2000e-004**	**9.2000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**55.7593**	**55.7593**	**7.6600e-003**	**0.0000**	**55.9509**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	7.6000e-003	1.8700e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.7590	0.7590	1.1000e-004	0.0000	0.7616
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.8000e-004**	**7.6000e-003**	**1.8700e-003**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.7590**	**0.7590**	**1.1000e-004**	**0.0000**	**0.7616**

3.5 WTP - Building Construction 4 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0147	0.1806	0.1975	3.5000e-004		6.8000e-003	6.8000e-003		6.2500e-003	6.2500e-003	0.0000	30.7105	30.7105	9.9300e-003	0.0000	30.9588
Total	**0.0147**	**0.1806**	**0.1975**	**3.5000e-004**		**6.8000e-003**	**6.8000e-003**		**6.2500e-003**	**6.2500e-003**	**0.0000**	**30.7105**	**30.7105**	**9.9300e-003**	**0.0000**	**30.9588**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	8.1700e-003	2.0100e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.8161	0.8161	1.1000e-004	0.0000	0.8189
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9000e-004**	**8.1700e-003**	**2.0100e-003**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.8161**	**0.8161**	**1.1000e-004**	**0.0000**	**0.8189**

3.5 WTP - Building Construction 4 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2400e-003	0.1352	0.2415	3.5000e-004		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	30.7105	30.7105	9.9300e-003	0.0000	30.9588
Total	**7.2400e-003**	**0.1352**	**0.2415**	**3.5000e-004**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**30.7105**	**30.7105**	**9.9300e-003**	**0.0000**	**30.9588**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	8.1700e-003	2.0100e-003	1.0000e-005	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.8161	0.8161	1.1000e-004	0.0000	0.8189
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9000e-004**	**8.1700e-003**	**2.0100e-003**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.8161**	**0.8161**	**1.1000e-004**	**0.0000**	**0.8189**

3.6 WTP - Building Construction 1 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0216	0.2069	0.2333	4.0000e-004		0.0106	0.0106		0.0101	0.0101	0.0000	34.5845	34.5845	5.9600e-003	0.0000	34.7335
Total	**0.0216**	**0.2069**	**0.2333**	**4.0000e-004**		**0.0106**	**0.0106**		**0.0101**	**0.0101**	**0.0000**	**34.5845**	**34.5845**	**5.9600e-003**	**0.0000**	**34.7335**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.8300e-003	9.4000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.3824	0.3824	5.0000e-005	0.0000	0.3837
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-005**	**3.8300e-003**	**9.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3824**	**0.3824**	**5.0000e-005**	**0.0000**	**0.3837**

3.6 WTP - Building Construction 1 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7400e-003	0.1480	0.2595	4.0000e-004		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	34.5845	34.5845	5.9600e-003	0.0000	34.7335
Total	**7.7400e-003**	**0.1480**	**0.2595**	**4.0000e-004**		**5.8000e-004**	**5.8000e-004**		**5.8000e-004**	**5.8000e-004**	**0.0000**	**34.5845**	**34.5845**	**5.9600e-003**	**0.0000**	**34.7335**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.8300e-003	9.4000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.3824	0.3824	5.0000e-005	0.0000	0.3837
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-005**	**3.8300e-003**	**9.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3824**	**0.3824**	**5.0000e-005**	**0.0000**	**0.3837**

3.7 WTP - Building Construction 2 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9300e-003	0.1249	0.1472	2.6000e-004		4.4600e-003	4.4600e-003		4.1000e-003	4.1000e-003	0.0000	22.3960	22.3960	7.2400e-003	0.0000	22.5771
Total	**9.9300e-003**	**0.1249**	**0.1472**	**2.6000e-004**		**4.4600e-003**	**4.4600e-003**		**4.1000e-003**	**4.1000e-003**	**0.0000**	**22.3960**	**22.3960**	**7.2400e-003**	**0.0000**	**22.5771**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	5.0800e-003	1.2500e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.5079	0.5079	7.0000e-005	0.0000	0.5097
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2000e-004**	**5.0800e-003**	**1.2500e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.5079**	**0.5079**	**7.0000e-005**	**0.0000**	**0.5097**

3.7 WTP - Building Construction 2 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4200e-003	0.1051	0.1787	2.6000e-004		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	22.3960	22.3960	7.2400e-003	0.0000	22.5771
Total	**5.4200e-003**	**0.1051**	**0.1787**	**2.6000e-004**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**	**0.0000**	**22.3960**	**22.3960**	**7.2400e-003**	**0.0000**	**22.5771**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	5.0800e-003	1.2500e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.5079	0.5079	7.0000e-005	0.0000	0.5097
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2000e-004**	**5.0800e-003**	**1.2500e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.5079**	**0.5079**	**7.0000e-005**	**0.0000**	**0.5097**

3.8 WTP - Building Construction 5 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7300e-003	0.0229	0.0355	5.0000e-005		8.0000e-004	8.0000e-004		7.4000e-004	7.4000e-004	0.0000	4.6930	4.6930	1.5200e-003	0.0000	4.7310
Total	**1.7300e-003**	**0.0229**	**0.0355**	**5.0000e-005**		**8.0000e-004**	**8.0000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**4.6930**	**4.6930**	**1.5200e-003**	**0.0000**	**4.7310**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.7700e-003	4.4000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1769	0.1769	2.0000e-005	0.0000	0.1775
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0000e-005**	**1.7700e-003**	**4.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1769**	**0.1769**	**2.0000e-005**	**0.0000**	**0.1775**

3.8 WTP - Building Construction 5 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2000e-003	0.0234	0.0405	5.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	4.6930	4.6930	1.5200e-003	0.0000	4.7310
Total	**1.2000e-003**	**0.0234**	**0.0405**	**5.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**4.6930**	**4.6930**	**1.5200e-003**	**0.0000**	**4.7310**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.7700e-003	4.4000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1769	0.1769	2.0000e-005	0.0000	0.1775
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0000e-005**	**1.7700e-003**	**4.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.1769**	**0.1769**	**2.0000e-005**	**0.0000**	**0.1775**

3.9 WTP - Building Construction 6 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0244	0.2653	0.3105	7.9000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	69.3689	69.3689	0.0224	0.0000	69.9298
Total	**0.0244**	**0.2653**	**0.3105**	**7.9000e-004**		**9.6100e-003**	**9.6100e-003**		**8.8400e-003**	**8.8400e-003**	**0.0000**	**69.3689**	**69.3689**	**0.0224**	**0.0000**	**69.9298**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	5.0800e-003	1.2500e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.5079	0.5079	7.0000e-005	0.0000	0.5097
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2000e-004**	**5.0800e-003**	**1.2500e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.5079**	**0.5079**	**7.0000e-005**	**0.0000**	**0.5097**

3.9 WTP - Building Construction 6 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.2677	0.4914	7.9000e-004		2.1000e-003	2.1000e-003		2.1000e-003	2.1000e-003	0.0000	69.3688	69.3688	0.0224	0.0000	69.9297
Total	**0.0138**	**0.2677**	**0.4914**	**7.9000e-004**		**2.1000e-003**	**2.1000e-003**		**2.1000e-003**	**2.1000e-003**	**0.0000**	**69.3688**	**69.3688**	**0.0224**	**0.0000**	**69.9297**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	5.0800e-003	1.2500e-003	1.0000e-005	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.5079	0.5079	7.0000e-005	0.0000	0.5097
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.2000e-004**	**5.0800e-003**	**1.2500e-003**	**1.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.5079**	**0.5079**	**7.0000e-005**	**0.0000**	**0.5097**

3.10 WTP - Building Construction 7 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.4800e-003	0.0940	0.1108	1.9000e-004		3.3600e-003	3.3600e-003		3.0900e-003	3.0900e-003	0.0000	16.8599	16.8599	5.4500e-003	0.0000	16.9962
Total	**7.4800e-003**	**0.0940**	**0.1108**	**1.9000e-004**		**3.3600e-003**	**3.3600e-003**		**3.0900e-003**	**3.0900e-003**	**0.0000**	**16.8599**	**16.8599**	**5.4500e-003**	**0.0000**	**16.9962**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.8300e-003	9.4000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.3824	0.3824	5.0000e-005	0.0000	0.3837
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-005**	**3.8300e-003**	**9.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3824**	**0.3824**	**5.0000e-005**	**0.0000**	**0.3837**

3.10 WTP - Building Construction 7 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0800e-003	0.0792	0.1345	1.9000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	16.8599	16.8599	5.4500e-003	0.0000	16.9962
Total	**4.0800e-003**	**0.0792**	**0.1345**	**1.9000e-004**		**9.1000e-004**	**9.1000e-004**		**9.1000e-004**	**9.1000e-004**	**0.0000**	**16.8599**	**16.8599**	**5.4500e-003**	**0.0000**	**16.9962**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.8300e-003	9.4000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.3824	0.3824	5.0000e-005	0.0000	0.3837
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-005**	**3.8300e-003**	**9.4000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.3824**	**0.3824**	**5.0000e-005**	**0.0000**	**0.3837**

3.11 WTP - Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-003	0.0516	0.0665	1.1000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003	0.0000	9.3619	9.3619	6.1000e-004	0.0000	9.3772
Total	**0.0447**	**0.0516**	**0.0665**	**1.1000e-004**		**3.0000e-003**	**3.0000e-003**		**3.0000e-003**	**3.0000e-003**	**0.0000**	**9.3619**	**9.3619**	**6.1000e-004**	**0.0000**	**9.3772**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	3.1400e-003	7.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.3139	0.3139	4.0000e-005	0.0000	0.3150
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.0000e-005**	**3.1400e-003**	**7.7000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3139**	**0.3139**	**4.0000e-005**	**0.0000**	**0.3150**

3.11 WTP - Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-003	0.0389	0.0672	1.1000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	9.3619	9.3619	6.1000e-004	0.0000	9.3772
Total	**0.0392**	**0.0389**	**0.0672**	**1.1000e-004**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**9.3619**	**9.3619**	**6.1000e-004**	**0.0000**	**9.3772**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	3.1400e-003	7.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.3139	0.3139	4.0000e-005	0.0000	0.3150
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.0000e-005**	**3.1400e-003**	**7.7000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3139**	**0.3139**	**4.0000e-005**	**0.0000**	**0.3150**

3.11 WTP - Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1700e-003	0.0148	0.0205	3.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	2.8937	2.8937	1.7000e-004	0.0000	2.8980
Total	**0.0137**	**0.0148**	**0.0205**	**3.0000e-005**		**8.0000e-004**	**8.0000e-004**		**8.0000e-004**	**8.0000e-004**	**0.0000**	**2.8937**	**2.8937**	**1.7000e-004**	**0.0000**	**2.8980**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.4000e-004	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0928	0.0928	1.0000e-005	0.0000	0.0930
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**8.4000e-004**	**2.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0928**	**0.0928**	**1.0000e-005**	**0.0000**	**0.0930**

3.11 WTP - Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-004	0.0120	0.0208	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.8937	2.8937	1.7000e-004	0.0000	2.8980
Total	**0.0121**	**0.0120**	**0.0208**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.8937**	**2.8937**	**1.7000e-004**	**0.0000**	**2.8980**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.4000e-004	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0928	0.0928	1.0000e-005	0.0000	0.0930
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**8.4000e-004**	**2.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0928**	**0.0928**	**1.0000e-005**	**0.0000**	**0.0930**

3.12 WTP - Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2900e-003	0.0440	0.0546	8.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	7.4005	7.4005	2.3900e-003	0.0000	7.4603
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.1900e-003**	**0.0440**	**0.0546**	**8.0000e-005**		**2.2900e-003**	**2.2900e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**7.4005**	**7.4005**	**2.3900e-003**	**0.0000**	**7.4603**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.6300e-003	6.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.2625	0.2625	4.0000e-005	0.0000	0.2634
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.0000e-005**	**2.6300e-003**	**6.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.2625**	**0.2625**	**4.0000e-005**	**0.0000**	**0.2634**

3.12 WTP - Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3400e-003	0.0370	0.0638	8.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	7.4005	7.4005	2.3900e-003	0.0000	7.4603
Paving	9.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.2400e-003**	**0.0370**	**0.0638**	**8.0000e-005**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**	**0.0000**	**7.4005**	**7.4005**	**2.3900e-003**	**0.0000**	**7.4603**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	2.6300e-003	6.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.2625	0.2625	4.0000e-005	0.0000	0.2634
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.0000e-005**	**2.6300e-003**	**6.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.2625**	**0.2625**	**4.0000e-005**	**0.0000**	**0.2634**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795
Unmitigated	1.0000e-003	0.0290	0.0108	1.6000e-004	4.7300e-003	6.0000e-005	4.7800e-003	1.3600e-003	5.0000e-005	1.4200e-003	0.0000	15.2630	15.2630	6.6000e-004	0.0000	15.2795

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Industrial Park	2.00	0.00	0.00	10,400	10,400
Other Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
Total	2.00	0.00	0.00	10,400	10,400

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	20.00	20.00	20.00	59.00	28.00	13.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Industrial Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000
Other Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8445	59.8445	1.5300e-003	3.2000e-004	59.9774
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.8445	59.8445	1.5300e-003	3.2000e-004	59.9774
NaturalGas Mitigated	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
NaturalGas Unmitigated	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	190050	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.0200e-003**	**9.3200e-003**	**7.8300e-003**	**6.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**10.1418**	**10.1418**	**1.9000e-004**	**1.9000e-004**	**10.2021**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	190050	1.0200e-003	9.3200e-003	7.8300e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1418	10.1418	1.9000e-004	1.9000e-004	10.2021
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**1.0200e-003**	**9.3200e-003**	**7.8300e-003**	**6.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**10.1418**	**10.1418**	**1.9000e-004**	**1.9000e-004**	**10.2021**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	116550	59.8445	1.5300e-003	3.2000e-004	59.9774
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**59.8445**	**1.5300e-003**	**3.2000e-004**	**59.9774**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	116550	59.8445	1.5300e-003	3.2000e-004	59.9774
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**59.8445**	**1.5300e-003**	**3.2000e-004**	**59.9774**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.2645	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2592					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2645**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2592					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2645**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.6048	3.2800e-003	1.9000e-003	17.2524
Unmitigated	16.6048	3.2800e-003	1.9000e-003	17.2524

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.35875 / 0	16.6048	3.2800e-003	1.9000e-003	17.2524
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**16.6048**	**3.2800e-003**	**1.9000e-003**	**17.2524**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.35875 / 0	16.6048	3.2800e-003	1.9000e-003	17.2524
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**16.6048**	**3.2800e-003**	**1.9000e-003**	**17.2524**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.2839	0.0759	0.0000	3.1809
Unmitigated	2.5678	0.1518	0.0000	6.3617

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	12.65	2.5678	0.1518	0.0000	6.3617
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**2.5678**	**0.1518**	**0.0000**	**6.3617**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	6.325	1.2839	0.0759	0.0000	3.1809
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**1.2839**	**0.0759**	**0.0000**	**3.1809**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

- - - -

```
                and:      0 BUOYANT LINE source(s) with      0 line(s)

 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for
Calm Hours
                                                                 m for
Missing Hours
                                                                 b for
Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    53.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.7 MB of RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   ArcadiaWTP_Con.err
 **File for Summary of Results:   ArcadiaWTP_Con.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KSMO_V9_ADJU\KSMO_v9.SFC
Met Version: 16216
Profile file: KSMO_V9_ADJU\KSMO_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93197 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	131.	10.1	283.1	2.0
12	01	01	1	02	-7.6	0.121	-9.000	-9.000	-999.	101.	21.3	0.17	2.20	1.00	1.35	232.	10.1	282.0	2.0
12	01	01	1	03	-3.3	0.082	-9.000	-9.000	-999.	57.	15.3	0.17	2.20	1.00	0.86	46.	10.1	280.9	2.0
12	01	01	1	04	-5.4	0.102	-9.000	-9.000	-999.	79.	17.9	0.17	2.20	1.00	1.14	82.	10.1	281.4	2.0
12	01	01	1	05	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	205.	10.1	281.4	2.0
12	01	01	1	06	-7.4	0.119	-9.000	-9.000	-999.	99.	20.9	0.17	2.20	1.00	1.33	254.	10.1	280.9	2.0
12	01	01	1	07	-4.6	0.094	-9.000	-9.000	-999.	70.	16.6	0.17	2.20	1.00	1.04	39.	10.1	279.2	2.0
12	01	01	1	08	-16.0	0.197	-9.000	-9.000	-999.	209.	43.0	0.17	2.20	0.54	2.10	63.	10.1	282.0	2.0
12	01	01	1	09	36.8	0.255	0.339	0.005	38.	309.	-40.8	0.17	2.20	0.31	2.27	33.	10.1	292.0	2.0
12	01	01	1	10	102.6	0.234	0.691	0.006	117.	271.	-11.3	0.17	2.20	0.23	1.79	204.	10.1	289.2	2.0
12	01	01	1	11	154.6	0.178	1.118	0.005	327.	181.	-3.3	0.17	2.20	0.20	1.11	119.	10.1	296.4	2.0
12	01	01	1	12	182.0	0.295	1.459	0.005	618.	385.	-12.8	0.17	2.20	0.19	2.30	76.	10.1	300.9	2.0
12	01	01	1	13	175.0	0.355	1.686	0.005	991.	507.	-23.0	0.17	2.20	0.19	2.98	179.	10.1	293.8	2.0

```
 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17
2.20   0.20    3.25  211.   10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17
2.20   0.23    2.44  231.   10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17
2.20   0.32    2.85  217.   10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17
2.20   0.58    2.73  226.   10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17
2.20   1.00    1.45  230.   10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17
2.20   1.00    1.77  225.   10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17
2.20   1.00    1.18  182.   10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17
2.20   1.00    0.00    0.   10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17
2.20   1.00    1.33  202.   10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17
2.20   1.00    1.21  251.   10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17
2.20   1.00    1.14  224.   10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	142.14710	AT (364756.62, 3768059.98, 74.92, 74.92, 0.00)	DC	
	2ND HIGHEST VALUE IS	117.36089	AT (364745.41, 3768075.77, 75.34, 75.34, 0.00)	DC	
	3RD HIGHEST VALUE IS	116.37822	AT (364767.84, 3768044.19, 74.65, 74.65, 0.00)	DC	
	4TH HIGHEST VALUE IS	116.24075	AT (364750.00, 3768075.00, 75.45, 75.45, 0.00)	DC	
	5TH HIGHEST VALUE IS	98.59601	AT (364775.00, 3768050.00, 75.30, 75.30, 0.00)	DC	
	6TH HIGHEST VALUE IS	85.51733	AT (364779.05, 3768028.40, 74.62, 75.45, 0.00)	DC	
	7TH HIGHEST VALUE IS	84.30718	AT (364775.00, 3768075.00, 76.17, 76.17, 0.00)	DC	
	8TH HIGHEST VALUE IS	68.19515	AT (364675.00, 3767925.00, 72.05, 75.92, 0.00)	DC	
	9TH HIGHEST VALUE IS	67.64567	AT (364734.19, 3768091.56, 75.86, 75.86, 0.00)	DC	
	10TH HIGHEST VALUE IS	58.39376	AT (364750.00, 3768100.00, 76.14, 76.14, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	2393.64816	ON 15122116: AT (364745.41, 3768075.77, 75.34, 75.34, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 799 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 455 Calm Hours Identified

A Total of 344 Missing Hours Identified (0.78 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 2249 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 2249 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.8.3
** Lakes Environmental Software Inc.
** Date: 2/19/2020
** File: C:\Lakes\AERMOD View\AERMOD
Runs\ArcadiaWTP_Con\ArcadiaWTP_Con.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\AERMOD
Runs\ArcadiaWTP_Con\ArcadiaWTP_Con.isc
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL ArcadiaWTP_Con.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     364657.496  3767934.063       72.390
** DESCRSRC Construction
   LOCATION VOL2         VOLUME     364651.457  3767946.054       72.780
** DESCRSRC Construction
   LOCATION VOL3         VOLUME     364641.460  3767956.321       72.770
** DESCRSRC Construction
   LOCATION VOL4         VOLUME     364670.389  3767942.775       72.570
** DESCRSRC Construction
   LOCATION VOL5         VOLUME     364682.606  3767952.824       73.590
** DESCRSRC Construction
   LOCATION VOL6         VOLUME     364635.569  3767984.167       73.090
** DESCRSRC Construction
   LOCATION VOL7         VOLUME     364645.693  3767974.123       73.090
** DESCRSRC Construction
   LOCATION VOL8         VOLUME     364674.619  3768012.632       73.980
** DESCRSRC Construction
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   LOCATION VOL9         VOLUME     364685.283  3768023.064       74.590
** DESCRSRC Construction
   LOCATION VOL10        VOLUME     364697.932  3768046.506       75.030
** DESCRSRC Construction
   LOCATION VOL11        VOLUME     364708.942  3768040.528       74.960
** DESCRSRC Construction
   LOCATION VOL12        VOLUME     364719.503  3768043.450       74.940
** DESCRSRC Construction
   LOCATION VOL13        VOLUME     364723.766  3768032.801       75.230
** DESCRSRC Construction
   LOCATION VOL14        VOLUME     364734.894  3768042.305       74.960
** DESCRSRC Construction
   LOCATION VOL15        VOLUME     364739.298  3768030.250       75.040
** DESCRSRC Construction
   LOCATION VOL16        VOLUME     364749.731  3768019.355       74.960
** DESCRSRC Construction
   LOCATION VOL17        VOLUME     364758.540  3768006.604       74.840
** DESCRSRC Construction
   LOCATION VOL18        VOLUME     364701.483  3768029.828       74.950
** DESCRSRC Construction
   LOCATION VOL19        VOLUME     364727.798  3768053.697       74.980
** DESCRSRC Construction
** Source Parameters **
   SRCPARAM VOL1         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL2         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL3         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL4         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL5         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL6         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL7         0.0526315789     5.000     2.326     4.650
   SRCPARAM VOL8         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL9         0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL10        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL11        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL12        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL13        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL14        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL15        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL16        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL17        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL18        0.0526315789     5.000     2.326     4.651
   SRCPARAM VOL19        0.0526315789     5.000     2.326     4.651
   URBANSRC ALL

** Variable Emissions Type: "By Season / Hour / Seven Days (SHRDOW7)"
** Variable Emission Scenario: "Scenario 2"
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL1         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL1         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Summer;  Day of Week = Monday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL1          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Spring;  Day of Week = Monday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL2          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
```

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** Season = Winter;  Day of Week = Monday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL3          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL4          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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** Season = Spring;  Day of Week = Friday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL5          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL6          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Summer;  Day of Week = Monday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Fall;  Day of Week = Monday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL6          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL6          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Winter;  Day of Week = Thursday
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** Season = Spring;  Day of Week = Thursday
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** Season = Summer;  Day of Week = Thursday
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** Season = Fall;  Day of Week = Thursday
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** Season = Winter;  Day of Week = Friday
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** Season = Spring;  Day of Week = Friday
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** Season = Summer;  Day of Week = Friday
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** Season = Fall;  Day of Week = Friday
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** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL6          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Summer;  Day of Week = Sunday
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** Season = Fall;  Day of Week = Sunday
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** Season = Winter;  Day of Week = Monday
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** Season = Spring;  Day of Week = Monday
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** Season = Summer;  Day of Week = Monday
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** Season = Fall;  Day of Week = Monday
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** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Spring;  Day of Week = Tuesday
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** Season = Summer;  Day of Week = Tuesday
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** Season = Fall;  Day of Week = Tuesday
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** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL7          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL8          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL9          SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL10        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Fall;  Day of Week = Friday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL11        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Summer;  Day of Week = Friday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL12        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Spring;  Day of Week = Friday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL13        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Winter;  Day of Week = Friday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL14        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL15        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Friday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Friday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL16        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL16        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Friday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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** Season = Spring;  Day of Week = Friday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Summer;  Day of Week = Friday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Friday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL17        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Saturday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Saturday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Sunday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Sunday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Sunday
   EMISFACT VOL17        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Sunday
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Monday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Monday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Monday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Tuesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Tuesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Tuesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Tuesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Wednesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Wednesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Wednesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Wednesday
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18         SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Winter;  Day of Week = Thursday
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Spring;  Day of Week = Thursday
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Summer;  Day of Week = Thursday
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
   EMISFACT VOL18        SHRDOW7 4.2 4.2 4.2 0.0 4.2 4.2 4.2 4.2
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** Season = Fall;  Day of Week = Thursday
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Winter;  Day of Week = Saturday
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Fall;  Day of Week = Saturday
   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL18        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
** Season = Winter;  Day of Week = Monday
   EMISFACT VOL19         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
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** Season = Spring;  Day of Week = Monday
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   EMISFACT VOL19         SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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** Season = Fall;  Day of Week = Wednesday
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   EMISFACT VOL19        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL19        SHRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED ArcadiaWTP_Con.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KSMO_V9_ADJU\KSMO_v9.SFC
   PROFFILE KSMO_V9_ADJU\KSMO_v9.PFL
   SURFDATA 93197 2012
   UAIRDATA 3190 2012
   PROFBASE 53.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ArcadiaWTP_Con.AD\01H1GALL.PLT 31
   PLOTFILE PERIOD ALL ArcadiaWTP_Con.AD\PE00GALL.PLT 32
   SUMMFILE ArcadiaWTP_Con.sum
OU FINISHED
```

```
  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2249       MEOPEN: THRESH_1MIN 1-min ASOS wind speed
threshold used          0.50
 ME W187    2249       MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

```
 *** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\AERMOD
Runs\ArcadiaWTP_Con\ArcadiaWTP_Con.isc   ***        02/19/20
 *** AERMET - VERSION  16216 ***   ***
***        13:47:47

PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    19 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:     19 Source(s);       1 Source Group(s); and
869 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     19 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
```

```
                and:      0 BUOYANT LINE source(s) with      0 line(s)

 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for
Calm Hours
                                                                 m for
Missing Hours
                                                                 b for
Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    53.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.7 MB of RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   ArcadiaWTP_Con.err
 **File for Summary of Results:   ArcadiaWTP_Con.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SOURCE CATS.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
VOL1	0	0.52632E-01 SHRDOW7	364657.5	3767934.1	72.4	5.00	2.33	4.65	YES
VOL2	0	0.52632E-01 SHRDOW7	364651.5	3767946.1	72.8	5.00	2.33	4.65	YES
VOL3	0	0.52632E-01 SHRDOW7	364641.5	3767956.3	72.8	5.00	2.33	4.65	YES
VOL4	0	0.52632E-01 SHRDOW7	364670.4	3767942.8	72.6	5.00	2.33	4.65	YES
VOL5	0	0.52632E-01 SHRDOW7	364682.6	3767952.8	73.6	5.00	2.33	4.65	YES
VOL6	0	0.52632E-01 SHRDOW7	364635.6	3767984.2	73.1	5.00	2.33	4.65	YES
VOL7	0	0.52632E-01 SHRDOW7	364645.7	3767974.1	73.1	5.00	2.33	4.65	YES
VOL8	0	0.52632E-01 SHRDOW7	364674.6	3768012.6	74.0	5.00	2.33	4.65	YES
VOL9	0	0.52632E-01 SHRDOW7	364685.3	3768023.1	74.6	5.00	2.33	4.65	YES
VOL10	0	0.52632E-01 SHRDOW7	364697.9	3768046.5	75.0	5.00	2.33	4.65	YES
VOL11	0	0.52632E-01 SHRDOW7	364708.9	3768040.5	75.0	5.00	2.33	4.65	YES
VOL12	0	0.52632E-01 SHRDOW7	364719.5	3768043.4	74.9	5.00	2.33	4.65	YES
VOL13	0	0.52632E-01 SHRDOW7	364723.8	3768032.8	75.2	5.00	2.33	4.65	YES
VOL14	0	0.52632E-01 SHRDOW7	364734.9	3768042.3	75.0	5.00	2.33	4.65	YES
VOL15	0	0.52632E-01 SHRDOW7	364739.3	3768030.2	75.0	5.00	2.33	4.65	YES
VOL16	0	0.52632E-01 SHRDOW7	364749.7	3768019.4	75.0	5.00	2.33	4.65	YES

VOL17		0	0.52632E-01	364758.5	3768006.6	74.8	5.00
2.33	4.65	YES	SHRDOW7				
VOL18		0	0.52632E-01	364701.5	3768029.8	75.0	5.00
2.33	4.65	YES	SHRDOW7				
VOL19		0	0.52632E-01	364727.8	3768053.7	75.0	5.00
2.33	4.65	YES	SHRDOW7				

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 ,

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
SEASON = WINTER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00
13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00
13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00
13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00
13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00
13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00
13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01				

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
SEASON = WINTER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.4200E+01	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01
15	.4200E+01	16	.4200E+01										

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
SEASON = WINTER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

SEASON = WINTER; DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
SEASON = WINTER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
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    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SPRING; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = SUMMER; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = FALL ; DAY OF WEEK = MONDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SEASON = WINTER; DAY OF WEEK = TUESDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = WINTER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SPRING;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON = SUMMER;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  SEASON =  FALL ;  DAY OF
WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
```

```
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = FRIDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .4200E+01
    9  .4200E+01   10  .4200E+01   11  .4200E+01   12  .0000E+00   13
.4200E+01   14  .4200E+01   15  .4200E+01   16  .4200E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SPRING;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = SUMMER;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF
WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON = WINTER;  DAY OF
WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5
.0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13
.0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21
.0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SEASON = SPRING; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = SUMMER; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

SEASON = FALL ; DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(363650.0, 3767000.0, 53.9, 53.9, 0.0); (363750.0, 3767000.0, 51.7, 51.7, 0.0);
(363850.0, 3767000.0, 50.9, 50.9, 0.0); (363950.0, 3767000.0, 51.5, 51.5, 0.0);
(364050.0, 3767000.0, 52.8, 52.8, 0.0); (364150.0, 3767000.0, 53.9, 53.9, 0.0);
(364250.0, 3767000.0, 53.8, 53.8, 0.0); (364350.0, 3767000.0, 54.8, 54.8, 0.0);
(364450.0, 3767000.0, 55.1, 55.1, 0.0); (364550.0, 3767000.0, 55.3, 55.3, 0.0);
(364650.0, 3767000.0, 55.5, 55.5, 0.0); (364750.0, 3767000.0, 54.1, 54.1, 0.0);
(364850.0, 3767000.0, 53.6, 53.6, 0.0); (364950.0, 3767000.0, 52.4, 52.4, 0.0);
(365050.0, 3767000.0, 50.9, 50.9, 0.0); (365150.0, 3767000.0, 51.1, 51.1, 0.0);
(365250.0, 3767000.0, 50.6, 50.6, 0.0); (365350.0, 3767000.0, 50.1, 50.1, 0.0);
(365450.0, 3767000.0, 50.3, 50.3, 0.0); (365550.0, 3767000.0, 51.1, 51.1, 0.0);
(365650.0, 3767000.0, 50.6, 50.6, 0.0); (363650.0, 3767100.0, 57.3, 57.3, 0.0);
(363750.0, 3767100.0, 55.2, 55.2, 0.0); (363850.0, 3767100.0, 52.5, 52.5, 0.0);
(363950.0, 3767100.0, 52.2, 52.2, 0.0); (364050.0, 3767100.0, 53.7, 53.7, 0.0);
(364150.0, 3767100.0, 54.9, 54.9, 0.0); (364250.0, 3767100.0, 56.0, 56.0, 0.0);
(364350.0, 3767100.0, 56.5, 56.5, 0.0); (364450.0, 3767100.0, 57.3, 57.3, 0.0);
(364550.0, 3767100.0, 57.3, 57.3, 0.0); (364650.0, 3767100.0, 56.8, 56.8, 0.0);
(364750.0, 3767100.0, 56.4, 56.4, 0.0); (364850.0, 3767100.0, 55.7, 55.7, 0.0);
(364950.0, 3767100.0, 54.0, 54.0, 0.0); (365050.0, 3767100.0, 53.5, 53.5, 0.0);
(365150.0, 3767100.0, 52.3, 52.3, 0.0); (365250.0, 3767100.0, 52.0, 52.0, 0.0);
(365350.0, 3767100.0, 51.9, 51.9, 0.0); (365450.0, 3767100.0, 51.8, 51.8, 0.0);

```
     ( 365550.0, 3767100.0,      51.4,      51.4,       0.0);         (
365650.0, 3767100.0,      51.9,      51.9,       0.0);
     ( 363650.0, 3767200.0,      59.8,      59.8,       0.0);         (
363750.0, 3767200.0,      58.1,      58.1,       0.0);
     ( 363850.0, 3767200.0,      56.3,      56.3,       0.0);         (
363950.0, 3767200.0,      55.4,      55.4,       0.0);
     ( 364050.0, 3767200.0,      54.6,      54.6,       0.0);         (
364150.0, 3767200.0,      56.8,      56.8,       0.0);
     ( 364250.0, 3767200.0,      56.9,      56.9,       0.0);         (
364350.0, 3767200.0,      58.6,      58.6,       0.0);
     ( 364450.0, 3767200.0,      59.5,      59.5,       0.0);         (
364550.0, 3767200.0,      59.4,      59.4,       0.0);
     ( 364650.0, 3767200.0,      59.6,      59.6,       0.0);         (
364750.0, 3767200.0,      57.5,      58.6,       0.0);
     ( 364850.0, 3767200.0,      57.3,      57.3,       0.0);         (
364950.0, 3767200.0,      56.5,      56.5,       0.0);
     ( 365050.0, 3767200.0,      55.4,      55.4,       0.0);         (
365150.0, 3767200.0,      53.9,      53.9,       0.0);
     ( 365250.0, 3767200.0,      53.5,      53.5,       0.0);         (
365350.0, 3767200.0,      53.5,      53.5,       0.0);
     ( 365450.0, 3767200.0,      53.0,      53.0,       0.0);         (
365550.0, 3767200.0,      52.7,      52.7,       0.0);
     ( 365650.0, 3767200.0,      53.2,      53.2,       0.0);         (
363650.0, 3767300.0,      62.2,      62.2,       0.0);
     ( 363750.0, 3767300.0,      60.5,      60.5,       0.0);         (
363850.0, 3767300.0,      60.7,      60.7,       0.0);
     ( 363950.0, 3767300.0,      59.5,      59.5,       0.0);         (
364050.0, 3767300.0,      59.2,      59.2,       0.0);
     ( 364150.0, 3767300.0,      59.4,      59.4,       0.0);         (
364250.0, 3767300.0,      60.4,      60.4,       0.0);
     ( 364350.0, 3767300.0,      60.0,      60.0,       0.0);         (
364450.0, 3767300.0,      60.9,      60.9,       0.0);
     ( 364550.0, 3767300.0,      61.9,      61.9,       0.0);         (
364650.0, 3767300.0,      60.3,      60.3,       0.0);
     ( 364750.0, 3767300.0,      60.6,      60.6,       0.0);         (
364850.0, 3767300.0,      59.6,      59.6,       0.0);
     ( 364950.0, 3767300.0,      58.5,      58.5,       0.0);         (
365050.0, 3767300.0,      57.1,      57.1,       0.0);
     ( 365150.0, 3767300.0,      55.5,      55.5,       0.0);         (
365250.0, 3767300.0,      55.0,      55.0,       0.0);
     ( 365350.0, 3767300.0,      54.9,      54.9,       0.0);         (
365450.0, 3767300.0,      54.5,      54.5,       0.0);
     ( 365550.0, 3767300.0,      53.9,      53.9,       0.0);         (
365650.0, 3767300.0,      54.4,      54.4,       0.0);
     ( 363650.0, 3767400.0,      65.9,      65.9,       0.0);         (
363750.0, 3767400.0,      64.7,      64.7,       0.0);
     ( 363850.0, 3767400.0,      64.2,      64.2,       0.0);         (
363950.0, 3767400.0,      64.9,      65.1,       0.0);
     ( 364050.0, 3767400.0,      64.3,      64.7,       0.0);         (
364150.0, 3767400.0,      64.9,      64.9,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364250.0, 3767400.0, 64.3, 64.3, 0.0); (364350.0, 3767400.0, 63.4, 63.4, 0.0);
(364450.0, 3767400.0, 63.1, 63.1, 0.0); (364550.0, 3767400.0, 63.1, 63.1, 0.0);
(364650.0, 3767400.0, 63.6, 63.6, 0.0); (364750.0, 3767400.0, 62.8, 62.8, 0.0);
(364850.0, 3767400.0, 61.7, 61.7, 0.0); (364950.0, 3767400.0, 60.7, 60.7, 0.0);
(365050.0, 3767400.0, 58.9, 58.9, 0.0); (365150.0, 3767400.0, 57.6, 57.6, 0.0);
(365250.0, 3767400.0, 56.5, 56.5, 0.0); (365350.0, 3767400.0, 55.8, 55.8, 0.0);
(365450.0, 3767400.0, 55.7, 55.7, 0.0); (365550.0, 3767400.0, 55.4, 55.4, 0.0);
(365650.0, 3767400.0, 55.9, 55.9, 0.0); (363650.0, 3767500.0, 69.0, 69.0, 0.0);
(363750.0, 3767500.0, 69.8, 69.8, 0.0); (363850.0, 3767500.0, 70.0, 70.0, 0.0);
(363950.0, 3767500.0, 69.3, 69.3, 0.0); (364050.0, 3767500.0, 71.7, 71.7, 0.0);
(364150.0, 3767500.0, 72.2, 72.2, 0.0); (364250.0, 3767500.0, 69.9, 70.0, 0.0);
(364350.0, 3767500.0, 65.2, 68.6, 0.0); (364450.0, 3767500.0, 66.0, 67.0, 0.0);
(364550.0, 3767500.0, 66.5, 66.5, 0.0); (364650.0, 3767500.0, 64.8, 64.8, 0.0);
(364750.0, 3767500.0, 64.2, 64.2, 0.0); (364850.0, 3767500.0, 63.5, 63.5, 0.0);
(364950.0, 3767500.0, 62.5, 62.5, 0.0); (365050.0, 3767500.0, 60.7, 60.7, 0.0);
(365150.0, 3767500.0, 59.3, 59.3, 0.0); (365250.0, 3767500.0, 58.4, 58.4, 0.0);
(365350.0, 3767500.0, 57.4, 57.4, 0.0); (365450.0, 3767500.0, 56.9, 56.9, 0.0);
(365550.0, 3767500.0, 57.3, 57.3, 0.0); (365650.0, 3767500.0, 56.8, 56.8, 0.0);
(363650.0, 3767600.0, 72.6, 72.6, 0.0); (363750.0, 3767600.0, 72.7, 72.7, 0.0);
(363850.0, 3767600.0, 72.7, 72.7, 0.0); (363950.0, 3767600.0, 72.8, 72.8, 0.0);

```
     ( 364050.0, 3767600.0,      73.0,      73.0,       0.0);         (
364150.0, 3767600.0,      72.9,      72.9,       0.0);
     ( 364250.0, 3767600.0,      70.8,      70.8,       0.0);         (
364350.0, 3767600.0,      68.0,      68.0,       0.0);
     ( 364450.0, 3767600.0,      69.3,      69.3,       0.0);         (
364550.0, 3767600.0,      68.1,      69.0,       0.0);
     ( 364650.0, 3767600.0,      67.2,      67.2,       0.0);         (
364750.0, 3767600.0,      65.8,      65.8,       0.0);
     ( 364850.0, 3767600.0,      65.3,      65.3,       0.0);         (
364950.0, 3767600.0,      64.1,      64.1,       0.0);
     ( 365050.0, 3767600.0,      63.3,      63.3,       0.0);         (
365150.0, 3767600.0,      61.8,      61.8,       0.0);
     ( 365250.0, 3767600.0,      59.8,      59.8,       0.0);         (
365350.0, 3767600.0,      58.2,      58.2,       0.0);
     ( 365450.0, 3767600.0,      58.2,      58.2,       0.0);         (
365550.0, 3767600.0,      58.9,      58.9,       0.0);
     ( 365650.0, 3767600.0,      58.8,      58.8,       0.0);         (
363650.0, 3767700.0,      76.3,     107.4,       0.0);
     ( 363750.0, 3767700.0,      77.1,     108.3,       0.0);         (
363850.0, 3767700.0,      78.0,     107.3,       0.0);
     ( 363950.0, 3767700.0,      77.3,      77.3,       0.0);         (
364050.0, 3767700.0,      75.4,      75.4,       0.0);
     ( 364150.0, 3767700.0,      74.0,      74.0,       0.0);         (
364250.0, 3767700.0,      73.0,      73.0,       0.0);
     ( 364350.0, 3767700.0,      70.5,      70.5,       0.0);         (
364450.0, 3767700.0,      71.3,      71.3,       0.0);
     ( 364550.0, 3767700.0,      69.6,      69.6,       0.0);         (
364650.0, 3767700.0,      69.0,      69.0,       0.0);
     ( 364750.0, 3767700.0,      69.4,      69.4,       0.0);         (
364850.0, 3767700.0,      68.0,      68.0,       0.0);
     ( 364950.0, 3767700.0,      66.5,      66.5,       0.0);         (
365050.0, 3767700.0,      64.1,      64.1,       0.0);
     ( 365150.0, 3767700.0,      62.9,      62.9,       0.0);         (
365250.0, 3767700.0,      60.5,      60.5,       0.0);
     ( 365350.0, 3767700.0,      59.9,      59.9,       0.0);         (
365450.0, 3767700.0,      59.6,      59.6,       0.0);
     ( 365550.0, 3767700.0,      60.1,      60.1,       0.0);         (
365650.0, 3767700.0,      60.5,      60.5,       0.0);
     ( 363650.0, 3767800.0,      80.0,     111.0,       0.0);         (
363750.0, 3767800.0,      83.3,     109.0,       0.0);
     ( 363850.0, 3767800.0,      86.7,     108.0,       0.0);         (
363950.0, 3767800.0,      81.9,     108.0,       0.0);
     ( 364050.0, 3767800.0,      79.2,      79.3,       0.0);         (
364150.0, 3767800.0,      77.0,      77.0,       0.0);
     ( 364250.0, 3767800.0,      74.0,      74.0,       0.0);         (
364350.0, 3767800.0,      72.3,      72.3,       0.0);
     ( 364450.0, 3767800.0,      71.8,      71.8,       0.0);         (
364550.0, 3767800.0,      71.3,      71.3,       0.0);
     ( 364650.0, 3767800.0,      70.4,      70.4,       0.0);         (
364750.0, 3767800.0,      69.4,      69.4,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364850.0, 3767800.0, 68.4, 68.4, 0.0); (364950.0, 3767800.0, 67.7, 67.7, 0.0);
(365050.0, 3767800.0, 65.5, 65.5, 0.0); (365150.0, 3767800.0, 63.8, 63.8, 0.0);
(365250.0, 3767800.0, 62.3, 62.3, 0.0); (365350.0, 3767800.0, 60.5, 60.5, 0.0);
(365450.0, 3767800.0, 60.9, 60.9, 0.0); (365550.0, 3767800.0, 61.7, 61.7, 0.0);
(365650.0, 3767800.0, 61.9, 61.9, 0.0); (363650.0, 3767900.0, 89.6, 111.0, 0.0);
(363750.0, 3767900.0, 97.0, 107.9, 0.0); (363850.0, 3767900.0, 95.9, 108.0, 0.0);
(363950.0, 3767900.0, 86.5, 108.4, 0.0); (364050.0, 3767900.0, 82.1, 107.6, 0.0);
(364150.0, 3767900.0, 78.5, 78.5, 0.0); (364250.0, 3767900.0, 75.2, 75.2, 0.0);
(364350.0, 3767900.0, 74.5, 74.5, 0.0); (364450.0, 3767900.0, 73.9, 73.9, 0.0);
(364550.0, 3767900.0, 72.8, 72.8, 0.0); (364650.0, 3767900.0, 71.2, 71.2, 0.0);
(364750.0, 3767900.0, 71.7, 71.7, 0.0); (364850.0, 3767900.0, 70.0, 70.0, 0.0);
(364950.0, 3767900.0, 67.7, 67.7, 0.0); (365050.0, 3767900.0, 66.2, 66.2, 0.0);
(365150.0, 3767900.0, 64.6, 64.6, 0.0); (365250.0, 3767900.0, 62.2, 62.2, 0.0);
(365350.0, 3767900.0, 61.8, 61.8, 0.0); (365450.0, 3767900.0, 62.6, 62.6, 0.0);
(365550.0, 3767900.0, 62.9, 62.9, 0.0); (365650.0, 3767900.0, 63.3, 63.3, 0.0);
(363650.0, 3768000.0, 103.8, 108.9, 0.0); (363750.0, 3768000.0, 107.3, 107.3, 0.0);
(363850.0, 3768000.0, 101.0, 108.4, 0.0); (363950.0, 3768000.0, 88.7, 108.6, 0.0);
(364050.0, 3768000.0, 83.8, 108.0, 0.0); (364150.0, 3768000.0, 74.6, 107.6, 0.0);
(364250.0, 3768000.0, 78.0, 78.0, 0.0); (364350.0, 3768000.0, 75.8, 75.8, 0.0);
(364450.0, 3768000.0, 75.3, 75.3, 0.0); (364850.0, 3768000.0, 72.0, 72.0, 0.0);

```
     ( 364950.0, 3768000.0,      72.1,      75.0,       0.0);         (
365050.0, 3768000.0,      67.7,      77.6,       0.0);
     ( 365150.0, 3768000.0,      65.9,      79.2,       0.0);         (
365250.0, 3768000.0,      63.6,      63.6,       0.0);
     ( 365350.0, 3768000.0,      63.3,      63.3,       0.0);         (
365450.0, 3768000.0,      63.6,      63.6,       0.0);
     ( 365550.0, 3768000.0,      64.2,      64.2,       0.0);         (
365650.0, 3768000.0,      65.0,      65.0,       0.0);
     ( 363650.0, 3768100.0,     109.9,     109.9,       0.0);         (
363750.0, 3768100.0,     107.8,     108.8,       0.0);
     ( 363850.0, 3768100.0,      90.9,     111.3,       0.0);         (
363950.0, 3768100.0,      77.6,     111.3,       0.0);
     ( 364050.0, 3768100.0,      78.6,     108.9,       0.0);         (
364150.0, 3768100.0,      79.9,      79.9,       0.0);
     ( 364250.0, 3768100.0,      79.6,      79.6,       0.0);         (
364350.0, 3768100.0,      78.2,      78.2,       0.0);
     ( 364450.0, 3768100.0,      77.0,      77.0,       0.0);         (
364550.0, 3768100.0,      77.7,      80.9,       0.0);
     ( 364650.0, 3768100.0,      78.0,      78.0,       0.0);         (
364750.0, 3768100.0,      76.1,      76.1,       0.0);
     ( 364850.0, 3768100.0,      76.3,      76.3,       0.0);         (
364950.0, 3768100.0,      75.3,      75.3,       0.0);
     ( 365050.0, 3768100.0,      77.6,      77.6,       0.0);         (
365150.0, 3768100.0,      74.4,      79.3,       0.0);
     ( 365250.0, 3768100.0,      65.0,      80.1,       0.0);         (
365350.0, 3768100.0,      63.7,      78.5,       0.0);
     ( 365450.0, 3768100.0,      65.2,      77.6,       0.0);         (
365550.0, 3768100.0,      65.4,      65.4,       0.0);
     ( 365650.0, 3768100.0,      66.1,      66.1,       0.0);         (
363650.0, 3768200.0,      92.1,     111.5,       0.0);
     ( 363750.0, 3768200.0,      81.2,     111.5,       0.0);         (
363850.0, 3768200.0,      84.7,     111.3,       0.0);
     ( 363950.0, 3768200.0,      85.0,     109.0,       0.0);         (
364050.0, 3768200.0,      83.6,      84.0,       0.0);
     ( 364150.0, 3768200.0,      82.8,      82.8,       0.0);         (
364250.0, 3768200.0,      80.5,      80.5,       0.0);
     ( 364350.0, 3768200.0,      79.6,      79.6,       0.0);         (
364450.0, 3768200.0,      78.7,      78.7,       0.0);
     ( 364550.0, 3768200.0,      80.0,      80.0,       0.0);         (
364650.0, 3768200.0,      80.2,      80.2,       0.0);
     ( 364750.0, 3768200.0,      79.2,      79.2,       0.0);         (
364850.0, 3768200.0,      78.9,      78.9,       0.0);
     ( 364950.0, 3768200.0,      78.2,      79.3,       0.0);         (
365050.0, 3768200.0,      80.1,      80.1,       0.0);
     ( 365150.0, 3768200.0,      80.0,      80.0,       0.0);         (
365250.0, 3768200.0,      72.8,      79.6,       0.0);
     ( 365350.0, 3768200.0,      75.4,      77.5,       0.0);         (
365450.0, 3768200.0,      73.1,      82.3,       0.0);
     ( 365550.0, 3768200.0,      67.1,      77.3,       0.0);         (
365650.0, 3768200.0,      67.6,      67.6,       0.0);
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(363650.0, 3768300.0, 86.0, 111.5, 0.0); (363750.0, 3768300.0, 87.1, 111.5, 0.0);
(363850.0, 3768300.0, 87.3, 87.3, 0.0); (363950.0, 3768300.0, 87.3, 87.3, 0.0);
(364050.0, 3768300.0, 86.2, 86.2, 0.0); (364150.0, 3768300.0, 84.4, 84.4, 0.0);
(364250.0, 3768300.0, 82.0, 82.0, 0.0); (364350.0, 3768300.0, 80.5, 80.5, 0.0);
(364450.0, 3768300.0, 81.0, 81.0, 0.0); (364550.0, 3768300.0, 82.9, 82.9, 0.0);
(364650.0, 3768300.0, 80.1, 80.1, 0.0); (364750.0, 3768300.0, 82.0, 82.0, 0.0);
(364850.0, 3768300.0, 81.2, 81.2, 0.0); (364950.0, 3768300.0, 81.5, 81.5, 0.0);
(365050.0, 3768300.0, 83.2, 83.2, 0.0); (365150.0, 3768300.0, 83.9, 83.9, 0.0);
(365250.0, 3768300.0, 76.0, 85.0, 0.0); (365350.0, 3768300.0, 78.5, 78.5, 0.0);
(365450.0, 3768300.0, 78.8, 82.3, 0.0); (365550.0, 3768300.0, 76.4, 76.4, 0.0);
(365650.0, 3768300.0, 71.4, 82.9, 0.0); (363650.0, 3768400.0, 89.1, 89.1, 0.0);
(363750.0, 3768400.0, 89.5, 89.5, 0.0); (363850.0, 3768400.0, 89.6, 89.6, 0.0);
(363950.0, 3768400.0, 89.0, 89.0, 0.0); (364050.0, 3768400.0, 87.6, 87.6, 0.0);
(364150.0, 3768400.0, 85.1, 85.1, 0.0); (364250.0, 3768400.0, 82.0, 82.0, 0.0);
(364350.0, 3768400.0, 81.9, 84.3, 0.0); (364450.0, 3768400.0, 83.5, 83.5, 0.0);
(364550.0, 3768400.0, 85.0, 85.0, 0.0); (364650.0, 3768400.0, 82.0, 82.0, 0.0);
(364750.0, 3768400.0, 84.4, 84.4, 0.0); (364850.0, 3768400.0, 83.0, 83.0, 0.0);
(364950.0, 3768400.0, 84.4, 84.4, 0.0); (365050.0, 3768400.0, 86.5, 86.8, 0.0);
(365150.0, 3768400.0, 86.1, 86.1, 0.0); (365250.0, 3768400.0, 80.9, 83.0, 0.0);
(365350.0, 3768400.0, 82.0, 82.0, 0.0); (365450.0, 3768400.0, 82.4, 82.4, 0.0);

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     ( 365550.0, 3768400.0,      82.7,      82.7,       0.0);         (
365650.0, 3768400.0,      76.7,      89.7,       0.0);
     ( 363650.0, 3768500.0,      92.1,      92.1,       0.0);         (
363750.0, 3768500.0,      91.9,      91.9,       0.0);
     ( 363850.0, 3768500.0,      91.0,      91.0,       0.0);         (
363950.0, 3768500.0,      91.2,      91.2,       0.0);
     ( 364050.0, 3768500.0,      88.5,      88.5,       0.0);         (
364150.0, 3768500.0,      84.5,      84.5,       0.0);
     ( 364250.0, 3768500.0,      83.4,      85.7,       0.0);         (
364350.0, 3768500.0,      86.0,      86.0,       0.0);
     ( 364450.0, 3768500.0,      87.2,      87.2,       0.0);         (
364550.0, 3768500.0,      85.9,      85.9,       0.0);
     ( 364650.0, 3768500.0,      83.9,      84.0,       0.0);         (
364750.0, 3768500.0,      84.9,      84.9,       0.0);
     ( 364850.0, 3768500.0,      86.1,      86.1,       0.0);         (
364950.0, 3768500.0,      85.4,      85.4,       0.0);
     ( 365050.0, 3768500.0,      87.8,      87.8,       0.0);         (
365150.0, 3768500.0,      86.6,      86.6,       0.0);
     ( 365250.0, 3768500.0,      85.2,      88.1,       0.0);         (
365350.0, 3768500.0,      85.6,      85.6,       0.0);
     ( 365450.0, 3768500.0,      84.0,      85.7,       0.0);         (
365550.0, 3768500.0,      87.5,      87.5,       0.0);
     ( 365650.0, 3768500.0,      88.3,      88.3,       0.0);         (
363650.0, 3768600.0,      94.8,      94.8,       0.0);
     ( 363750.0, 3768600.0,      94.0,      94.0,       0.0);         (
363850.0, 3768600.0,      95.0,      95.8,       0.0);
     ( 363950.0, 3768600.0,      91.0,      94.6,       0.0);         (
364050.0, 3768600.0,      88.5,      88.5,       0.0);
     ( 364150.0, 3768600.0,      85.9,      87.2,       0.0);         (
364250.0, 3768600.0,      88.9,      88.9,       0.0);
     ( 364350.0, 3768600.0,      89.2,      89.2,       0.0);         (
364450.0, 3768600.0,      90.3,      90.3,       0.0);
     ( 364550.0, 3768600.0,      89.2,      89.2,       0.0);         (
364650.0, 3768600.0,      85.3,      85.3,       0.0);
     ( 364750.0, 3768600.0,      87.2,      90.0,       0.0);         (
364850.0, 3768600.0,      88.5,      88.5,       0.0);
     ( 364950.0, 3768600.0,      87.0,      89.3,       0.0);         (
365050.0, 3768600.0,      90.6,      90.6,       0.0);
     ( 365150.0, 3768600.0,      87.2,      87.2,       0.0);         (
365250.0, 3768600.0,      88.7,      88.7,       0.0);
     ( 365350.0, 3768600.0,      88.8,      88.8,       0.0);         (
365450.0, 3768600.0,      89.0,      89.0,       0.0);
     ( 365550.0, 3768600.0,      88.4,      88.4,       0.0);         (
365650.0, 3768600.0,      89.7,      89.7,       0.0);
     ( 363650.0, 3768700.0,      97.5,      97.5,       0.0);         (
363750.0, 3768700.0,      96.1,      96.1,       0.0);
     ( 363850.0, 3768700.0,      95.0,      95.0,       0.0);         (
363950.0, 3768700.0,      91.7,      91.7,       0.0);
     ( 364050.0, 3768700.0,      89.1,      89.1,       0.0);         (
364150.0, 3768700.0,      87.9,      90.7,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364250.0, 3768700.0, 90.8, 90.8, 0.0); (364350.0, 3768700.0, 92.3, 92.3, 0.0);
(364450.0, 3768700.0, 92.4, 94.3, 0.0); (364550.0, 3768700.0, 90.3, 94.4, 0.0);
(364650.0, 3768700.0, 87.6, 90.6, 0.0); (364750.0, 3768700.0, 90.8, 90.8, 0.0);
(364850.0, 3768700.0, 92.8, 92.8, 0.0); (364950.0, 3768700.0, 90.6, 90.6, 0.0);
(365050.0, 3768700.0, 92.3, 92.3, 0.0); (365150.0, 3768700.0, 90.0, 90.0, 0.0);
(365250.0, 3768700.0, 89.7, 89.7, 0.0); (365350.0, 3768700.0, 91.9, 91.9, 0.0);
(365450.0, 3768700.0, 90.8, 90.8, 0.0); (365550.0, 3768700.0, 92.0, 92.0, 0.0);
(365650.0, 3768700.0, 90.7, 90.7, 0.0); (363650.0, 3768800.0, 100.7, 100.7, 0.0);
(363750.0, 3768800.0, 98.2, 98.2, 0.0); (363850.0, 3768800.0, 94.7, 94.7, 0.0);
(363950.0, 3768800.0, 93.4, 93.4, 0.0); (364050.0, 3768800.0, 93.0, 95.2, 0.0);
(364150.0, 3768800.0, 89.8, 89.8, 0.0); (364250.0, 3768800.0, 93.2, 93.2, 0.0);
(364350.0, 3768800.0, 94.6, 94.6, 0.0); (364450.0, 3768800.0, 95.6, 95.6, 0.0);
(364550.0, 3768800.0, 94.1, 96.9, 0.0); (364650.0, 3768800.0, 89.0, 93.7, 0.0);
(364750.0, 3768800.0, 93.1, 93.1, 0.0); (364850.0, 3768800.0, 94.8, 94.8, 0.0);
(364950.0, 3768800.0, 93.3, 93.3, 0.0); (365050.0, 3768800.0, 94.6, 94.6, 0.0);
(365150.0, 3768800.0, 92.0, 92.9, 0.0); (365250.0, 3768800.0, 93.7, 93.7, 0.0);
(365350.0, 3768800.0, 94.7, 94.7, 0.0); (365450.0, 3768800.0, 94.2, 94.2, 0.0);
(365550.0, 3768800.0, 93.0, 93.0, 0.0); (365650.0, 3768800.0, 92.5, 92.5, 0.0);
(363650.0, 3768900.0, 102.5, 109.6, 0.0); (363750.0, 3768900.0, 97.9, 97.9, 0.0);
(363850.0, 3768900.0, 96.6, 96.6, 0.0); (363950.0, 3768900.0, 96.3, 96.3, 0.0);

```
     ( 364050.0, 3768900.0,      95.9,      95.9,       0.0);         (
364150.0, 3768900.0,      95.5,      95.5,       0.0);
     ( 364250.0, 3768900.0,      95.8,      95.8,       0.0);         (
364350.0, 3768900.0,      97.3,      97.3,       0.0);
     ( 364450.0, 3768900.0,      97.7,      97.7,       0.0);         (
364550.0, 3768900.0,      98.0,      99.0,       0.0);
     ( 364650.0, 3768900.0,      93.3,      93.3,       0.0);         (
364750.0, 3768900.0,      91.3,      91.3,       0.0);
     ( 364850.0, 3768900.0,      97.5,      97.5,       0.0);         (
364950.0, 3768900.0,      95.1,      95.1,       0.0);
     ( 365050.0, 3768900.0,      96.6,      96.6,       0.0);         (
365150.0, 3768900.0,      94.2,      94.2,       0.0);
     ( 365250.0, 3768900.0,      96.2,      96.2,       0.0);         (
365350.0, 3768900.0,      96.9,      96.9,       0.0);
     ( 365450.0, 3768900.0,      95.7,      95.7,       0.0);         (
365550.0, 3768900.0,      96.2,      96.2,       0.0);
     ( 365650.0, 3768900.0,      94.8,      94.8,       0.0);         (
363650.0, 3769000.0,     102.3,     112.3,       0.0);
     ( 363750.0, 3769000.0,      99.0,      99.0,       0.0);         (
363850.0, 3769000.0,      98.7,      98.7,       0.0);
     ( 363950.0, 3769000.0,      99.7,     105.5,       0.0);         (
364050.0, 3769000.0,      98.6,      98.6,       0.0);
     ( 364150.0, 3769000.0,      97.1,      97.1,       0.0);         (
364250.0, 3769000.0,      98.0,      98.0,       0.0);
     ( 364350.0, 3769000.0,      98.6,      98.6,       0.0);         (
364450.0, 3769000.0,      99.4,      99.4,       0.0);
     ( 364550.0, 3769000.0,      98.8,      98.8,       0.0);         (
364650.0, 3769000.0,      97.8,      97.8,       0.0);
     ( 364750.0, 3769000.0,      97.0,      97.0,       0.0);         (
364850.0, 3769000.0,      98.5,      98.5,       0.0);
     ( 364950.0, 3769000.0,      97.7,      97.7,       0.0);         (
365050.0, 3769000.0,      98.2,      98.2,       0.0);
     ( 365150.0, 3769000.0,      98.5,      98.5,       0.0);         (
365250.0, 3769000.0,      99.3,      99.3,       0.0);
     ( 365350.0, 3769000.0,      99.2,      99.2,       0.0);         (
365450.0, 3769000.0,      98.5,      98.5,       0.0);
     ( 365550.0, 3769000.0,      98.1,      98.1,       0.0);         (
365650.0, 3769000.0,      95.1,      95.1,       0.0);
     ( 364450.0, 3767750.0,      72.3,      72.3,       0.0);         (
364475.0, 3767750.0,      71.2,      71.2,       0.0);
     ( 364500.0, 3767750.0,      70.6,      70.6,       0.0);         (
364525.0, 3767750.0,      70.6,      70.6,       0.0);
     ( 364550.0, 3767750.0,      70.3,      70.3,       0.0);         (
364575.0, 3767750.0,      69.3,      69.3,       0.0);
     ( 364600.0, 3767750.0,      69.7,      69.7,       0.0);         (
364625.0, 3767750.0,      70.0,      70.0,       0.0);
     ( 364650.0, 3767750.0,      69.4,      69.4,       0.0);         (
364675.0, 3767750.0,      69.7,      69.7,       0.0);
     ( 364700.0, 3767750.0,      69.8,      69.8,       0.0);         (
364725.0, 3767750.0,      69.6,      69.6,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364750.0, 3767750.0, 69.2, 69.2, 0.0); (364775.0, 3767750.0, 69.4, 69.4, 0.0);
(364800.0, 3767750.0, 68.7, 68.7, 0.0); (364825.0, 3767750.0, 68.6, 68.6, 0.0);
(364850.0, 3767750.0, 68.5, 68.5, 0.0); (364875.0, 3767750.0, 67.9, 67.9, 0.0);
(364900.0, 3767750.0, 67.7, 67.7, 0.0); (364925.0, 3767750.0, 67.5, 67.5, 0.0);
(364950.0, 3767750.0, 66.9, 66.9, 0.0); (364450.0, 3767775.0, 72.1, 72.1, 0.0);
(364475.0, 3767775.0, 71.2, 71.2, 0.0); (364500.0, 3767775.0, 71.4, 71.4, 0.0);
(364525.0, 3767775.0, 71.4, 71.4, 0.0); (364550.0, 3767775.0, 70.7, 70.7, 0.0);
(364575.0, 3767775.0, 70.5, 70.5, 0.0); (364600.0, 3767775.0, 70.6, 70.6, 0.0);
(364625.0, 3767775.0, 69.9, 69.9, 0.0); (364650.0, 3767775.0, 70.0, 70.0, 0.0);
(364675.0, 3767775.0, 70.0, 70.0, 0.0); (364700.0, 3767775.0, 69.9, 69.9, 0.0);
(364725.0, 3767775.0, 69.8, 69.8, 0.0); (364750.0, 3767775.0, 69.5, 69.5, 0.0);
(364775.0, 3767775.0, 68.9, 68.9, 0.0); (364800.0, 3767775.0, 68.5, 68.5, 0.0);
(364825.0, 3767775.0, 68.1, 68.1, 0.0); (364850.0, 3767775.0, 68.7, 68.7, 0.0);
(364875.0, 3767775.0, 68.0, 68.0, 0.0); (364900.0, 3767775.0, 68.1, 68.1, 0.0);
(364925.0, 3767775.0, 67.6, 67.6, 0.0); (364950.0, 3767775.0, 67.2, 67.2, 0.0);
(364450.0, 3767800.0, 71.8, 71.8, 0.0); (364475.0, 3767800.0, 71.8, 71.8, 0.0);
(364500.0, 3767800.0, 71.9, 71.9, 0.0); (364525.0, 3767800.0, 71.4, 71.4, 0.0);
(364550.0, 3767800.0, 71.3, 71.3, 0.0); (364575.0, 3767800.0, 70.7, 70.7, 0.0);
(364600.0, 3767800.0, 70.4, 70.4, 0.0); (364625.0, 3767800.0, 70.3, 70.3, 0.0);
(364650.0, 3767800.0, 70.4, 70.4, 0.0); (364675.0, 3767800.0, 70.1, 70.1, 0.0);

```
     ( 364700.0, 3767800.0,      70.3,      70.3,       0.0);         (
364725.0, 3767800.0,      70.1,      70.1,       0.0);
     ( 364750.0, 3767800.0,      69.4,      69.4,       0.0);         (
364775.0, 3767800.0,      69.4,      69.4,       0.0);
     ( 364800.0, 3767800.0,      68.9,      68.9,       0.0);         (
364825.0, 3767800.0,      68.8,      68.8,       0.0);
     ( 364850.0, 3767800.0,      68.4,      68.4,       0.0);         (
364875.0, 3767800.0,      68.6,      68.6,       0.0);
     ( 364900.0, 3767800.0,      68.3,      68.3,       0.0);         (
364925.0, 3767800.0,      67.7,      67.7,       0.0);
     ( 364950.0, 3767800.0,      67.7,      67.7,       0.0);         (
364450.0, 3767825.0,      72.6,      72.6,       0.0);
     ( 364475.0, 3767825.0,      72.4,      72.4,       0.0);         (
364500.0, 3767825.0,      72.0,      72.0,       0.0);
     ( 364525.0, 3767825.0,      71.9,      71.9,       0.0);         (
364550.0, 3767825.0,      71.6,      71.6,       0.0);
     ( 364575.0, 3767825.0,      71.0,      71.0,       0.0);         (
364600.0, 3767825.0,      70.7,      70.7,       0.0);
     ( 364625.0, 3767825.0,      70.4,      70.4,       0.0);         (
364650.0, 3767825.0,      70.5,      70.5,       0.0);
     ( 364675.0, 3767825.0,      70.7,      70.7,       0.0);         (
364700.0, 3767825.0,      70.5,      70.5,       0.0);
     ( 364725.0, 3767825.0,      69.8,      69.8,       0.0);         (
364750.0, 3767825.0,      70.0,      70.0,       0.0);
     ( 364775.0, 3767825.0,      70.0,      70.0,       0.0);         (
364800.0, 3767825.0,      69.8,      69.8,       0.0);
     ( 364825.0, 3767825.0,      69.1,      69.1,       0.0);         (
364850.0, 3767825.0,      69.1,      69.1,       0.0);
     ( 364875.0, 3767825.0,      68.9,      68.9,       0.0);         (
364900.0, 3767825.0,      68.3,      68.3,       0.0);
     ( 364925.0, 3767825.0,      68.2,      68.2,       0.0);         (
364950.0, 3767825.0,      67.8,      67.8,       0.0);
     ( 364450.0, 3767850.0,      72.9,      72.9,       0.0);         (
364475.0, 3767850.0,      72.6,      72.6,       0.0);
     ( 364500.0, 3767850.0,      71.7,      71.7,       0.0);         (
364525.0, 3767850.0,      71.8,      71.8,       0.0);
     ( 364550.0, 3767850.0,      71.7,      71.7,       0.0);         (
364575.0, 3767850.0,      71.6,      71.6,       0.0);
     ( 364600.0, 3767850.0,      71.2,      71.2,       0.0);         (
364625.0, 3767850.0,      70.8,      70.8,       0.0);
     ( 364650.0, 3767850.0,      70.6,      70.6,       0.0);         (
364675.0, 3767850.0,      71.0,      71.0,       0.0);
     ( 364700.0, 3767850.0,      70.3,      70.3,       0.0);         (
364725.0, 3767850.0,      70.5,      70.5,       0.0);
     ( 364750.0, 3767850.0,      70.3,      70.3,       0.0);         (
364775.0, 3767850.0,      70.2,      70.2,       0.0);
     ( 364800.0, 3767850.0,      70.2,      70.2,       0.0);         (
364825.0, 3767850.0,      70.7,      71.0,       0.0);
     ( 364850.0, 3767850.0,      69.2,      69.2,       0.0);         (
364875.0, 3767850.0,      68.9,      68.9,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364900.0, 3767850.0, 68.7, 68.7, 0.0); (364925.0, 3767850.0, 68.4, 68.4, 0.0);
(364950.0, 3767850.0, 67.6, 67.6, 0.0); (364450.0, 3767875.0, 73.4, 73.4, 0.0);
(364475.0, 3767875.0, 73.3, 73.3, 0.0); (364500.0, 3767875.0, 73.0, 73.0, 0.0);
(364525.0, 3767875.0, 72.4, 72.4, 0.0); (364550.0, 3767875.0, 72.2, 72.2, 0.0);
(364575.0, 3767875.0, 72.3, 72.3, 0.0); (364600.0, 3767875.0, 71.3, 71.3, 0.0);
(364625.0, 3767875.0, 70.9, 70.9, 0.0); (364650.0, 3767875.0, 70.9, 70.9, 0.0);
(364675.0, 3767875.0, 70.7, 70.7, 0.0); (364700.0, 3767875.0, 70.9, 70.9, 0.0);
(364725.0, 3767875.0, 71.0, 71.0, 0.0); (364750.0, 3767875.0, 70.9, 70.9, 0.0);
(364775.0, 3767875.0, 70.6, 70.6, 0.0); (364800.0, 3767875.0, 70.8, 70.8, 0.0);
(364825.0, 3767875.0, 71.0, 71.0, 0.0); (364850.0, 3767875.0, 70.1, 70.1, 0.0);
(364875.0, 3767875.0, 69.1, 69.1, 0.0); (364900.0, 3767875.0, 68.6, 68.6, 0.0);
(364925.0, 3767875.0, 68.4, 68.4, 0.0); (364950.0, 3767875.0, 68.0, 68.0, 0.0);
(364450.0, 3767900.0, 73.9, 73.9, 0.0); (364475.0, 3767900.0, 74.1, 74.1, 0.0);
(364500.0, 3767900.0, 73.0, 73.0, 0.0); (364525.0, 3767900.0, 73.1, 75.0, 0.0);
(364550.0, 3767900.0, 72.8, 72.8, 0.0); (364575.0, 3767900.0, 71.8, 71.8, 0.0);
(364600.0, 3767900.0, 71.7, 71.7, 0.0); (364625.0, 3767900.0, 71.8, 71.8, 0.0);
(364650.0, 3767900.0, 71.2, 71.2, 0.0); (364700.0, 3767900.0, 71.3, 71.3, 0.0);
(364725.0, 3767900.0, 71.6, 71.6, 0.0); (364750.0, 3767900.0, 71.7, 71.7, 0.0);
(364775.0, 3767900.0, 71.6, 71.6, 0.0); (364800.0, 3767900.0, 71.2, 71.2, 0.0);
(364825.0, 3767900.0, 70.7, 70.7, 0.0); (364850.0, 3767900.0, 70.0, 70.0, 0.0);

```
     ( 364875.0, 3767900.0,      69.7,      69.7,       0.0);         (
364900.0, 3767900.0,      69.0,      69.0,       0.0);
     ( 364925.0, 3767900.0,      68.1,      68.1,       0.0);         (
364950.0, 3767900.0,      67.7,      67.7,       0.0);
     ( 364450.0, 3767925.0,      73.9,      73.9,       0.0);         (
364475.0, 3767925.0,      73.8,      73.8,       0.0);
     ( 364500.0, 3767925.0,      74.2,      75.0,       0.0);         (
364525.0, 3767925.0,      74.8,      74.8,       0.0);
     ( 364550.0, 3767925.0,      73.2,      74.9,       0.0);         (
364575.0, 3767925.0,      72.5,      72.5,       0.0);
     ( 364600.0, 3767925.0,      72.1,      72.1,       0.0);         (
364625.0, 3767925.0,      71.5,      71.5,       0.0);
     ( 364675.0, 3767925.0,      72.0,      75.9,       0.0);         (
364700.0, 3767925.0,      72.1,      75.9,       0.0);
     ( 364750.0, 3767925.0,      72.1,      76.1,       0.0);         (
364775.0, 3767925.0,      72.4,      72.4,       0.0);
     ( 364800.0, 3767925.0,      72.3,      72.3,       0.0);         (
364825.0, 3767925.0,      71.0,      71.0,       0.0);
     ( 364850.0, 3767925.0,      70.1,      70.1,       0.0);         (
364875.0, 3767925.0,      69.8,      69.8,       0.0);
     ( 364900.0, 3767925.0,      69.1,      69.1,       0.0);         (
364925.0, 3767925.0,      68.7,      68.7,       0.0);
     ( 364950.0, 3767925.0,      68.0,      68.0,       0.0);         (
364450.0, 3767950.0,      74.1,      74.1,       0.0);
     ( 364475.0, 3767950.0,      74.2,      74.2,       0.0);         (
364500.0, 3767950.0,      74.5,      74.5,       0.0);
     ( 364525.0, 3767950.0,      75.0,      75.0,       0.0);         (
364550.0, 3767950.0,      74.9,      74.9,       0.0);
     ( 364575.0, 3767950.0,      72.1,      75.0,       0.0);         (
364600.0, 3767950.0,      72.1,      72.1,       0.0);
     ( 364775.0, 3767950.0,      72.0,      76.2,       0.0);         (
364800.0, 3767950.0,      72.2,      72.2,       0.0);
     ( 364825.0, 3767950.0,      71.2,      71.2,       0.0);         (
364850.0, 3767950.0,      71.1,      71.1,       0.0);
     ( 364875.0, 3767950.0,      70.0,      70.0,       0.0);         (
364900.0, 3767950.0,      69.5,      69.5,       0.0);
     ( 364925.0, 3767950.0,      69.0,      69.0,       0.0);         (
364950.0, 3767950.0,      68.5,      68.5,       0.0);
     ( 364450.0, 3767975.0,      74.6,      74.6,       0.0);         (
364475.0, 3767975.0,      74.6,      74.6,       0.0);
     ( 364500.0, 3767975.0,      74.4,      74.4,       0.0);         (
364525.0, 3767975.0,      74.6,      74.6,       0.0);
     ( 364550.0, 3767975.0,      74.9,      74.9,       0.0);         (
364575.0, 3767975.0,      73.1,      75.0,       0.0);
     ( 364825.0, 3767975.0,      72.0,      72.0,       0.0);         (
364850.0, 3767975.0,      72.1,      72.1,       0.0);
     ( 364875.0, 3767975.0,      70.9,      70.9,       0.0);         (
364900.0, 3767975.0,      70.9,      70.9,       0.0);
     ( 364925.0, 3767975.0,      69.8,      69.8,       0.0);         (
364950.0, 3767975.0,      69.4,      75.0,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364450.0, 3768000.0, 75.3, 75.3, 0.0); (364475.0, 3768000.0, 75.5, 75.5, 0.0);
(364500.0, 3768000.0, 75.2, 75.2, 0.0); (364525.0, 3768000.0, 74.6, 74.6, 0.0);
(364800.0, 3768000.0, 72.8, 75.6, 0.0); (364825.0, 3768000.0, 72.2, 75.5, 0.0);
(364850.0, 3768000.0, 72.0, 72.0, 0.0); (364875.0, 3768000.0, 71.2, 71.2, 0.0);
(364900.0, 3768000.0, 71.2, 71.2, 0.0); (364925.0, 3768000.0, 70.5, 75.2, 0.0);
(364950.0, 3768000.0, 72.1, 75.0, 0.0); (364450.0, 3768025.0, 75.7, 75.7, 0.0);
(364475.0, 3768025.0, 75.7, 75.7, 0.0); (364500.0, 3768025.0, 75.6, 75.6, 0.0);
(364525.0, 3768025.0, 75.2, 75.2, 0.0); (364800.0, 3768025.0, 75.5, 75.5, 0.0);
(364825.0, 3768025.0, 74.7, 74.7, 0.0); (364850.0, 3768025.0, 72.8, 72.8, 0.0);
(364875.0, 3768025.0, 72.1, 72.1, 0.0); (364900.0, 3768025.0, 71.7, 71.7, 0.0);
(364925.0, 3768025.0, 72.6, 74.9, 0.0); (364950.0, 3768025.0, 74.4, 74.4, 0.0);
(364450.0, 3768050.0, 74.8, 76.9, 0.0); (364475.0, 3768050.0, 74.5, 75.7, 0.0);
(364500.0, 3768050.0, 75.8, 75.8, 0.0); (364525.0, 3768050.0, 75.7, 75.7, 0.0);
(364550.0, 3768050.0, 75.5, 75.5, 0.0); (364600.0, 3768050.0, 76.1, 76.1, 0.0);
(364625.0, 3768050.0, 75.7, 75.7, 0.0); (364775.0, 3768050.0, 75.3, 75.3, 0.0);
(364800.0, 3768050.0, 75.9, 75.9, 0.0); (364825.0, 3768050.0, 75.5, 75.5, 0.0);
(364850.0, 3768050.0, 73.8, 76.8, 0.0); (364875.0, 3768050.0, 73.2, 73.2, 0.0);
(364900.0, 3768050.0, 72.6, 74.5, 0.0); (364925.0, 3768050.0, 73.8, 73.8, 0.0);
(364950.0, 3768050.0, 75.1, 75.1, 0.0); (364450.0, 3768075.0, 75.4, 76.9, 0.0);
(364475.0, 3768075.0, 74.0, 77.2, 0.0); (364500.0, 3768075.0, 76.5, 76.5, 0.0);

(364525.0, 3768075.0, 76.8, 76.8, 0.0); (364550.0, 3768075.0, 76.9, 80.6, 0.0);
(364575.0, 3768075.0, 76.8, 76.8, 0.0); (364625.0, 3768075.0, 77.1, 77.1, 0.0);
(364650.0, 3768075.0, 77.0, 77.0, 0.0); (364750.0, 3768075.0, 75.5, 75.5, 0.0);
(364775.0, 3768075.0, 76.2, 76.2, 0.0); (364800.0, 3768075.0, 76.0, 76.0, 0.0);
(364825.0, 3768075.0, 76.7, 76.7, 0.0); (364850.0, 3768075.0, 76.0, 76.2, 0.0);
(364875.0, 3768075.0, 75.0, 75.0, 0.0); (364900.0, 3768075.0, 74.6, 74.6, 0.0);
(364925.0, 3768075.0, 74.3, 74.3, 0.0); (364950.0, 3768075.0, 74.7, 74.7, 0.0);
(364450.0, 3768100.0, 77.0, 77.0, 0.0); (364475.0, 3768100.0, 76.6, 77.2, 0.0);
(364500.0, 3768100.0, 77.0, 77.0, 0.0); (364525.0, 3768100.0, 77.8, 79.8, 0.0);
(364550.0, 3768100.0, 77.7, 80.9, 0.0); (364575.0, 3768100.0, 78.8, 78.8, 0.0);
(364600.0, 3768100.0, 78.1, 78.1, 0.0); (364650.0, 3768100.0, 78.0, 78.0, 0.0);
(364675.0, 3768100.0, 78.4, 78.4, 0.0); (364725.0, 3768100.0, 76.4, 76.4, 0.0);
(364750.0, 3768100.0, 76.1, 76.1, 0.0); (364775.0, 3768100.0, 76.3, 76.3, 0.0);
(364800.0, 3768100.0, 77.5, 77.5, 0.0); (364825.0, 3768100.0, 76.9, 76.9, 0.0);
(364850.0, 3768100.0, 76.3, 76.3, 0.0); (364875.0, 3768100.0, 76.3, 76.3, 0.0);
(364900.0, 3768100.0, 75.6, 75.6, 0.0); (364925.0, 3768100.0, 75.0, 75.0, 0.0);
(364950.0, 3768100.0, 75.3, 75.3, 0.0); (364450.0, 3768125.0, 77.9, 77.9, 0.0);
(364475.0, 3768125.0, 77.5, 77.5, 0.0); (364500.0, 3768125.0, 77.4, 77.4, 0.0);
(364525.0, 3768125.0, 78.7, 78.7, 0.0); (364550.0, 3768125.0, 80.5, 80.5, 0.0);
(364575.0, 3768125.0, 80.6, 80.6, 0.0); (364600.0, 3768125.0, 79.4, 79.4, 0.0);
(364625.0, 3768125.0, 78.7, 78.7, 0.0); (364675.0, 3768125.0, 78.5, 78.5, 0.0);
(364700.0, 3768125.0, 77.9, 77.9, 0.0); (364725.0, 3768125.0, 77.5, 77.5, 0.0);
(364750.0, 3768125.0, 77.0, 77.0, 0.0); (364775.0, 3768125.0, 77.2, 77.2, 0.0);
(364800.0, 3768125.0, 77.8, 77.8, 0.0); (364825.0, 3768125.0, 77.1, 77.1, 0.0);
(364850.0, 3768125.0, 77.3, 77.3, 0.0); (364875.0, 3768125.0, 76.9, 76.9, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364900.0, 3768125.0, 75.7, 75.7, 0.0); (364925.0, 3768125.0, 75.8, 75.8, 0.0);
(364950.0, 3768125.0, 76.0, 76.0, 0.0); (364450.0, 3768150.0, 78.0, 78.0, 0.0);
(364475.0, 3768150.0, 78.2, 78.2, 0.0); (364500.0, 3768150.0, 77.9, 77.9, 0.0);
(364525.0, 3768150.0, 78.5, 78.5, 0.0); (364550.0, 3768150.0, 79.7, 79.7, 0.0);
(364575.0, 3768150.0, 80.8, 80.8, 0.0); (364600.0, 3768150.0, 79.8, 79.8, 0.0);
(364625.0, 3768150.0, 79.5, 79.5, 0.0); (364650.0, 3768150.0, 79.0, 79.0, 0.0);
(364700.0, 3768150.0, 78.6, 78.6, 0.0); (364725.0, 3768150.0, 78.4, 78.4, 0.0);
(364750.0, 3768150.0, 77.8, 77.8, 0.0); (364775.0, 3768150.0, 78.0, 78.0, 0.0);
(364800.0, 3768150.0, 78.0, 78.0, 0.0); (364825.0, 3768150.0, 77.9, 77.9, 0.0);
(364850.0, 3768150.0, 77.9, 77.9, 0.0); (364875.0, 3768150.0, 77.4, 77.4, 0.0);
(364900.0, 3768150.0, 76.9, 76.9, 0.0); (364925.0, 3768150.0, 76.7, 76.7, 0.0);
(364950.0, 3768150.0, 76.4, 76.4, 0.0); (364450.0, 3768175.0, 78.3, 78.3, 0.0);
(364475.0, 3768175.0, 78.6, 78.6, 0.0); (364500.0, 3768175.0, 78.5, 78.5, 0.0);
(364525.0, 3768175.0, 78.9, 78.9, 0.0); (364550.0, 3768175.0, 79.4, 79.4, 0.0);
(364575.0, 3768175.0, 80.0, 80.0, 0.0); (364600.0, 3768175.0, 80.2, 80.2, 0.0);
(364625.0, 3768175.0, 80.0, 80.0, 0.0); (364650.0, 3768175.0, 80.2, 80.2, 0.0);
(364675.0, 3768175.0, 79.9, 79.9, 0.0); (364700.0, 3768175.0, 78.9, 78.9, 0.0);
(364725.0, 3768175.0, 78.8, 78.8, 0.0); (364750.0, 3768175.0, 78.7, 78.7, 0.0);
(364775.0, 3768175.0, 78.7, 78.7, 0.0); (364800.0, 3768175.0, 78.5, 78.5, 0.0);
(364825.0, 3768175.0, 78.6, 78.6, 0.0); (364850.0, 3768175.0, 78.3, 78.3, 0.0);

```
     ( 364875.0, 3768175.0,      78.3,      78.3,       0.0);         (
364900.0, 3768175.0,      77.8,      77.8,       0.0);
     ( 364925.0, 3768175.0,      76.8,      76.8,       0.0);         (
364950.0, 3768175.0,      77.2,      77.2,       0.0);
     ( 364450.0, 3768200.0,      78.7,      78.7,       0.0);         (
364475.0, 3768200.0,      79.3,      79.3,       0.0);
     ( 364500.0, 3768200.0,      79.0,      79.0,       0.0);         (
364525.0, 3768200.0,      79.9,      79.9,       0.0);
     ( 364550.0, 3768200.0,      80.0,      80.0,       0.0);         (
364575.0, 3768200.0,      80.1,      80.1,       0.0);
     ( 364600.0, 3768200.0,      80.6,      80.6,       0.0);         (
364625.0, 3768200.0,      80.7,      80.7,       0.0);
     ( 364650.0, 3768200.0,      80.2,      80.2,       0.0);         (
364675.0, 3768200.0,      79.7,      79.7,       0.0);
     ( 364700.0, 3768200.0,      79.2,      79.2,       0.0);         (
364725.0, 3768200.0,      79.1,      79.1,       0.0);
     ( 364750.0, 3768200.0,      79.2,      79.2,       0.0);         (
364775.0, 3768200.0,      79.2,      79.2,       0.0);
     ( 364800.0, 3768200.0,      79.4,      79.4,       0.0);         (
364825.0, 3768200.0,      78.9,      78.9,       0.0);
     ( 364850.0, 3768200.0,      78.9,      78.9,       0.0);         (
364875.0, 3768200.0,      79.0,      79.0,       0.0);
     ( 364900.0, 3768200.0,      77.6,      77.6,       0.0);         (
364925.0, 3768200.0,      77.5,      79.4,       0.0);
     ( 364950.0, 3768200.0,      78.2,      79.3,       0.0);         (
364450.0, 3768225.0,      79.2,      79.2,       0.0);
     ( 364475.0, 3768225.0,      79.8,      79.8,       0.0);         (
364500.0, 3768225.0,      79.7,      79.7,       0.0);
     ( 364525.0, 3768225.0,      80.4,      80.4,       0.0);         (
364550.0, 3768225.0,      80.7,      80.7,       0.0);
     ( 364575.0, 3768225.0,      80.9,      81.6,       0.0);         (
364600.0, 3768225.0,      80.8,      80.8,       0.0);
     ( 364625.0, 3768225.0,      80.5,      80.5,       0.0);         (
364650.0, 3768225.0,      80.2,      80.2,       0.0);
     ( 364675.0, 3768225.0,      79.6,      79.6,       0.0);         (
364700.0, 3768225.0,      79.5,      79.5,       0.0);
     ( 364725.0, 3768225.0,      79.5,      79.5,       0.0);         (
364750.0, 3768225.0,      79.5,      79.5,       0.0);
     ( 364775.0, 3768225.0,      79.8,      79.8,       0.0);         (
364800.0, 3768225.0,      79.9,      79.9,       0.0);
     ( 364825.0, 3768225.0,      79.6,      79.6,       0.0);         (
364850.0, 3768225.0,      79.7,      79.7,       0.0);
     ( 364875.0, 3768225.0,      79.5,      79.5,       0.0);         (
364900.0, 3768225.0,      78.5,      78.5,       0.0);
     ( 364925.0, 3768225.0,      79.0,      79.0,       0.0);         (
364950.0, 3768225.0,      79.0,      79.0,       0.0);
     ( 364450.0, 3768250.0,      80.1,      80.1,       0.0);         (
364475.0, 3768250.0,      80.3,      80.3,       0.0);
     ( 364500.0, 3768250.0,      80.7,      80.7,       0.0);         (
364525.0, 3768250.0,      81.2,      81.2,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(364550.0, 3768250.0, 81.7, 81.7, 0.0); (364575.0, 3768250.0, 81.7, 81.7, 0.0);
(364600.0, 3768250.0, 81.4, 81.4, 0.0); (364625.0, 3768250.0, 80.6, 80.6, 0.0);
(364650.0, 3768250.0, 80.3, 80.3, 0.0); (364675.0, 3768250.0, 80.3, 80.3, 0.0);
(364700.0, 3768250.0, 79.8, 79.8, 0.0); (364725.0, 3768250.0, 80.1, 80.1, 0.0);
(364750.0, 3768250.0, 80.2, 80.2, 0.0); (364775.0, 3768250.0, 80.1, 80.1, 0.0);
(364800.0, 3768250.0, 80.4, 80.4, 0.0); (364825.0, 3768250.0, 80.4, 80.4, 0.0);
(364850.0, 3768250.0, 80.0, 80.0, 0.0); (364875.0, 3768250.0, 79.3, 79.3, 0.0);
(364900.0, 3768250.0, 79.5, 79.5, 0.0); (364925.0, 3768250.0, 79.5, 79.5, 0.0);
(364950.0, 3768250.0, 79.5, 79.5, 0.0); (364699.9, 3767936.0, 72.7, 75.9, 0.0);
(364607.9, 3768036.3, 75.6, 75.6, 0.0); (364622.2, 3768048.7, 75.7, 75.7, 0.0);
(364636.5, 3768061.2, 76.2, 76.2, 0.0); (364650.7, 3768073.6, 76.9, 76.9, 0.0);
(364665.0, 3768086.0, 77.9, 77.9, 0.0); (364679.3, 3768098.4, 78.3, 78.3, 0.0);
(364693.5, 3768110.8, 77.8, 77.8, 0.0); (364723.0, 3768107.3, 76.7, 76.7, 0.0);
(364734.2, 3768091.6, 75.9, 75.9, 0.0); (364745.4, 3768075.8, 75.3, 75.3, 0.0);
(364756.6, 3768060.0, 74.9, 74.9, 0.0); (364767.8, 3768044.2, 74.6, 74.6, 0.0);
(364779.0, 3768028.4, 74.6, 75.5, 0.0); (364790.3, 3768012.6, 73.3, 75.6, 0.0);
(364801.5, 3767996.8, 72.6, 75.0, 0.0); (364803.8, 3767974.5, 71.8, 71.8, 0.0);
(364780.5, 3767951.9, 71.9, 76.2, 0.0); (364764.9, 3767940.8, 72.0, 76.2, 0.0);
(364749.2, 3767929.7, 72.0, 76.1, 0.0); (364733.6, 3767918.7, 71.7, 75.9, 0.0);
(364718.0, 3767907.6, 71.6, 75.6, 0.0); (364702.3, 3767896.5, 71.3, 71.3, 0.0);

```
     ( 364686.7, 3767885.4,      71.0,      71.0,       0.0);         (
364667.3, 3767883.4,      70.8,      70.8,       0.0);
     ( 364642.5, 3767904.4,      71.3,      71.3,       0.0);         (
364629.7, 3767918.3,      71.5,      71.5,       0.0);
     ( 364616.9, 3767932.3,      71.7,      71.7,       0.0);         (
364604.0, 3767946.3,      72.0,      72.0,       0.0);
     ( 364591.2, 3767960.3,      72.3,      72.3,       0.0);         (
364578.4, 3767974.2,      73.0,      75.0,       0.0);
     ( 364565.5, 3767988.2,      73.6,      73.6,       0.0);         (
364595.0, 3768046.2,      75.9,      75.9,       0.0);
     ( 364621.1, 3768021.2,      74.1,      75.0,       0.0);         (
364706.7, 3768095.8,      76.7,      76.7,       0.0);
     ( 364785.2, 3767985.2,      72.2,      76.2,       0.0);         (
364786.0, 3767981.8,      72.0,      76.2,       0.0);
     ( 364784.6, 3767979.3,      72.2,      76.2,       0.0);         (
364675.1, 3767901.8,      71.4,      71.4,       0.0);
     ( 364670.1, 3767903.9,      71.3,      71.3,       0.0);         (
364567.5, 3768015.7,      74.6,      74.6,       0.0);
     ( 364567.7, 3768021.7,      74.9,      74.9,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KSMO_V9_ADJU\KSMO_v9.SFC
Met Version: 16216
Profile file: KSMO_V9_ADJU\KSMO_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93197 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	131.	10.1	283.1	2.0
12	01	01	1	02	-7.6	0.121	-9.000	-9.000	-999.	101.	21.3	0.17	2.20	1.00	1.35	232.	10.1	282.0	2.0
12	01	01	1	03	-3.3	0.082	-9.000	-9.000	-999.	57.	15.3	0.17	2.20	1.00	0.86	46.	10.1	280.9	2.0
12	01	01	1	04	-5.4	0.102	-9.000	-9.000	-999.	79.	17.9	0.17	2.20	1.00	1.14	82.	10.1	281.4	2.0
12	01	01	1	05	-6.6	0.113	-9.000	-9.000	-999.	91.	19.8	0.17	2.20	1.00	1.26	205.	10.1	281.4	2.0
12	01	01	1	06	-7.4	0.119	-9.000	-9.000	-999.	99.	20.9	0.17	2.20	1.00	1.33	254.	10.1	280.9	2.0
12	01	01	1	07	-4.6	0.094	-9.000	-9.000	-999.	70.	16.6	0.17	2.20	1.00	1.04	39.	10.1	279.2	2.0
12	01	01	1	08	-16.0	0.197	-9.000	-9.000	-999.	209.	43.0	0.17	2.20	0.54	2.10	63.	10.1	282.0	2.0
12	01	01	1	09	36.8	0.255	0.339	0.005	38.	309.	-40.8	0.17	2.20	0.31	2.27	33.	10.1	292.0	2.0
12	01	01	1	10	102.6	0.234	0.691	0.006	117.	271.	-11.3	0.17	2.20	0.23	1.79	204.	10.1	289.2	2.0
12	01	01	1	11	154.6	0.178	1.118	0.005	327.	181.	-3.3	0.17	2.20	0.20	1.11	119.	10.1	296.4	2.0
12	01	01	1	12	182.0	0.295	1.459	0.005	618.	385.	-12.8	0.17	2.20	0.19	2.30	76.	10.1	300.9	2.0
12	01	01	1	13	175.0	0.355	1.686	0.005	991.	507.	-23.0	0.17	2.20	0.19	2.98	179.	10.1	293.8	2.0

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 12 01 01   1 14  148.1  0.374  1.737  0.005 1282.  549.    -31.9  0.17
2.20   0.20    3.25  211.   10.1  292.0    2.0
 12 01 01   1 15   98.0  0.291  1.572  0.005 1436.  380.    -22.7  0.17
2.20   0.23    2.44  231.   10.1  290.9    2.0
 12 01 01   1 16   28.2  0.303  1.044  0.005 1460.  400.    -89.0  0.17
2.20   0.32    2.85  217.   10.1  289.2    2.0
 12 01 01   1 17  -22.4  0.259 -9.000 -9.000 -999.  317.     73.7  0.17
2.20   0.58    2.73  226.   10.1  287.0    2.0
 12 01 01   1 18   -8.7  0.131 -9.000 -9.000 -999.  124.     23.3  0.17
2.20   1.00    1.45  230.   10.1  286.4    2.0
 12 01 01   1 19  -13.2  0.163 -9.000 -9.000 -999.  157.     29.4  0.17
2.20   1.00    1.77  225.   10.1  285.9    2.0
 12 01 01   1 20   -5.7  0.106 -9.000 -9.000 -999.   83.     18.6  0.17
2.20   1.00    1.18  182.   10.1  284.9    2.0
 12 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.17
2.20   1.00    0.00    0.   10.1  284.2    2.0
 12 01 01   1 22   -7.3  0.119 -9.000 -9.000 -999.   99.     21.1  0.17
2.20   1.00    1.33  202.   10.1  285.4    2.0
 12 01 01   1 23   -6.0  0.108 -9.000 -9.000 -999.   86.     19.1  0.17
2.20   1.00    1.21  251.   10.1  284.9    2.0
 12 01 01   1 24   -5.4  0.102 -9.000 -9.000 -999.   78.     18.0  0.17
2.20   1.00    1.14  224.   10.1  284.2    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1  131.    1.26   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
363650.00	3767000.00	0.08889	363750.00	3767000.00	0.09458
363850.00	3767000.00	0.10082	363950.00	3767000.00	0.10764
364050.00	3767000.00	0.11475	364150.00	3767000.00	0.12167
364250.00	3767000.00	0.12753	364350.00	3767000.00	0.13260
364450.00	3767000.00	0.13621	364550.00	3767000.00	0.13852
364650.00	3767000.00	0.13912	364750.00	3767000.00	0.13655
364850.00	3767000.00	0.13100	364950.00	3767000.00	0.12251
365050.00	3767000.00	0.11251	365150.00	3767000.00	0.10274
365250.00	3767000.00	0.09323	365350.00	3767000.00	0.08444
365450.00	3767000.00	0.07662	365550.00	3767000.00	0.06975
365650.00	3767000.00	0.06349	363650.00	3767100.00	0.09854
363750.00	3767100.00	0.10617	363850.00	3767100.00	0.11415
363950.00	3767100.00	0.12311	364050.00	3767100.00	0.13299

364150.00 3767100.00 0.14287
364250.00 3767100.00 0.15216
364350.00 3767100.00 0.15987
364450.00 3767100.00 0.16586
364550.00 3767100.00 0.16951
364650.00 3767100.00 0.17029
364750.00 3767100.00 0.16712
364850.00 3767100.00 0.15888
364950.00 3767100.00 0.14645
365050.00 3767100.00 0.13288
365150.00 3767100.00 0.11909
365250.00 3767100.00 0.10657
365350.00 3767100.00 0.09531
365450.00 3767100.00 0.08542
365550.00 3767100.00 0.07672
365650.00 3767100.00 0.06932
363650.00 3767200.00 0.10889
363750.00 3767200.00 0.11910
363850.00 3767200.00 0.13027
363950.00 3767200.00 0.14258
364050.00 3767200.00 0.15567
364150.00 3767200.00 0.17042
364250.00 3767200.00 0.18412
364350.00 3767200.00 0.19709
364450.00 3767200.00 0.20706
364550.00 3767200.00 0.21320
364650.00 3767200.00 0.21526
364750.00 3767200.00 0.20952
364850.00 3767200.00 0.19717
364950.00 3767200.00 0.17910
365050.00 3767200.00 0.15915
365150.00 3767200.00 0.13991
365250.00 3767200.00 0.12297
365350.00 3767200.00 0.10829
365450.00 3767200.00 0.09558
365550.00 3767200.00 0.08483
365650.00 3767200.00 0.07583
363650.00 3767300.00 0.11976
363750.00 3767300.00 0.13314
363850.00 3767300.00 0.14886
363950.00 3767300.00 0.16617
364050.00 3767300.00 0.18549
364150.00 3767300.00 0.20646
364250.00 3767300.00 0.22847
364350.00 3767300.00 0.24858
364450.00 3767300.00 0.26590
364550.00 3767300.00 0.27786
364650.00 3767300.00 0.28057
364750.00 3767300.00 0.27332
364850.00 3767300.00 0.25260
364950.00 3767300.00 0.22403
365050.00 3767300.00 0.19405
365150.00 3767300.00 0.16650
365250.00 3767300.00 0.14319

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
365350.00	3767300.00	0.12371	365450.00	3767300.00	0.10747
365550.00	3767300.00	0.09398	365650.00	3767300.00	0.08296
363650.00	3767400.00	0.13094	363750.00	3767400.00	0.14824
363850.00	3767400.00	0.16899	363950.00	3767400.00	0.19385
364050.00	3767400.00	0.22227	364150.00	3767400.00	0.25477
364250.00	3767400.00	0.28952	364350.00	3767400.00	0.32421
364450.00	3767400.00	0.35523	364550.00	3767400.00	0.37737
364650.00	3767400.00	0.38606	364750.00	3767400.00	0.37205
364850.00	3767400.00	0.33573	364950.00	3767400.00	0.28845
365050.00	3767400.00	0.24150	365150.00	3767400.00	0.20121
365250.00	3767400.00	0.16824	365350.00	3767400.00	0.14192
365450.00	3767400.00	0.12102	365550.00	3767400.00	0.10417
365650.00	3767400.00	0.09071	363650.00	3767500.00	0.14143

363750.00 3767500.00 0.16325
363850.00 3767500.00 0.19031
363950.00 3767500.00 0.22383
364050.00 3767500.00 0.26578
364150.00 3767500.00 0.31621
364250.00 3767500.00 0.37436
364350.00 3767500.00 0.43517
364450.00 3767500.00 0.49814
364550.00 3767500.00 0.54681
364650.00 3767500.00 0.56369
364750.00 3767500.00 0.53698
364850.00 3767500.00 0.46770
364950.00 3767500.00 0.38365
365050.00 3767500.00 0.30717
365150.00 3767500.00 0.24604
365250.00 3767500.00 0.19930
365350.00 3767500.00 0.16353
365450.00 3767500.00 0.13627
365550.00 3767500.00 0.11536
365650.00 3767500.00 0.09876
363650.00 3767600.00 0.15033
363750.00 3767600.00 0.17636
363850.00 3767600.00 0.20999
363950.00 3767600.00 0.25392
364050.00 3767600.00 0.31175
364150.00 3767600.00 0.38781
364250.00 3767600.00 0.48559
364350.00 3767600.00 0.60439
364450.00 3767600.00 0.74026
364550.00 3767600.00 0.85631
364650.00 3767600.00 0.90841
364750.00 3767600.00 0.84511
364850.00 3767600.00 0.69335
364950.00 3767600.00 0.53024
365050.00 3767600.00 0.40011
365150.00 3767600.00 0.30474
365250.00 3767600.00 0.23650
365350.00 3767600.00 0.18781
365450.00 3767600.00 0.15293
365550.00 3767600.00 0.12717
365650.00 3767600.00 0.10735
363650.00 3767700.00 0.15592
363750.00 3767700.00 0.18523
363850.00 3767700.00 0.23185
363950.00 3767700.00 0.27865
364050.00 3767700.00 0.35579
364150.00 3767700.00 0.46542
364250.00 3767700.00 0.62482
364350.00 3767700.00 0.85417
364450.00 3767700.00 1.16955
364550.00 3767700.00 1.51253
364650.00 3767700.00 1.70592
364750.00 3767700.00 1.52664
364850.00 3767700.00 1.11895

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364950.00	3767700.00	0.76590	365050.00	3767700.00	0.52754
365150.00	3767700.00	0.37741	365250.00	3767700.00	0.27937
365350.00	3767700.00	0.21526	365450.00	3767700.00	0.17101
365550.00	3767700.00	0.13962	365650.00	3767700.00	0.11641
363650.00	3767800.00	0.16886	363750.00	3767800.00	0.21148
363850.00	3767800.00	0.26494	363950.00	3767800.00	0.33708
364050.00	3767800.00	0.40878	364150.00	3767800.00	0.53043
364250.00	3767800.00	0.76796	364350.00	3767800.00	1.17510
364450.00	3767800.00	1.91802	364550.00	3767800.00	3.19615
364650.00	3767800.00	4.33264	364750.00	3767800.00	3.38829
364850.00	3767800.00	1.98572	364950.00	3767800.00	1.14269
365050.00	3767800.00	0.70210	365150.00	3767800.00	0.46662
365250.00	3767800.00	0.33090	365350.00	3767800.00	0.24653

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          365450.00    3767800.00         0.19207
365550.00    3767800.00         0.15443
          365650.00    3767800.00         0.12718
363650.00    3767900.00         0.15836
          363750.00    3767900.00         0.18267
363850.00    3767900.00         0.22881
          363950.00    3767900.00         0.31294
364050.00    3767900.00         0.42481
          364150.00    3767900.00         0.57193
364250.00    3767900.00         0.86214
          364350.00    3767900.00         1.44792
364450.00    3767900.00         2.86929
          364550.00    3767900.00         7.76273
364650.00    3767900.00        28.79912
          364750.00    3767900.00        10.86350
364850.00    3767900.00         4.06730
          364950.00    3767900.00         1.79472
365050.00    3767900.00         0.97133
          365150.00    3767900.00         0.60229
365250.00    3767900.00         0.40797
          365350.00    3767900.00         0.29570
365450.00    3767900.00         0.22497
          365550.00    3767900.00         0.17716
365650.00    3767900.00         0.14353
          363650.00    3768000.00         0.12997
363750.00    3768000.00         0.15053
          363850.00    3768000.00         0.19609
363950.00    3768000.00         0.27826
          364050.00    3768000.00         0.38350
364150.00    3768000.00         0.56690
          364250.00    3768000.00         0.84485
364350.00    3768000.00         1.47676
          364450.00    3768000.00         3.08965
364850.00    3768000.00        11.80324
          364950.00    3768000.00         3.76897
365050.00    3768000.00         1.72004
          365150.00    3768000.00         0.95444
365250.00    3768000.00         0.59612
          365350.00    3768000.00         0.40557
365450.00    3768000.00         0.29317
          365550.00    3768000.00         0.22190
365650.00    3768000.00         0.17410
          363650.00    3768100.00         0.11629
363750.00    3768100.00         0.14022
          363850.00    3768100.00         0.19594
363950.00    3768100.00         0.28015
          364050.00    3768100.00         0.36226
364150.00    3768100.00         0.49409
          364250.00    3768100.00         0.73283
364350.00    3768100.00         1.21424
          364450.00    3768100.00         2.32087
364550.00    3768100.00         5.13791
          364650.00    3768100.00        15.58632
364750.00    3768100.00        58.39376
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364850.00	3768100.00	25.39648	364950.00	3768100.00	8.33612
365050.00	3768100.00	3.43110	365150.00	3768100.00	1.76476
365250.00	3768100.00	1.01276	365350.00	3768100.00	0.63687
365450.00	3768100.00	0.43112	365550.00	3768100.00	0.30838
365650.00	3768100.00	0.23081	363650.00	3768200.00	0.12470
363750.00	3768200.00	0.15743	363850.00	3768200.00	0.18676
363950.00	3768200.00	0.23134	364050.00	3768200.00	0.30000
364150.00	3768200.00	0.40267	364250.00	3768200.00	0.57945
364350.00	3768200.00	0.89568	364450.00	3768200.00	1.43851
364550.00	3768200.00	2.27212	364650.00	3768200.00	3.89113
364750.00	3768200.00	8.17281	364850.00	3768200.00	11.65580
364950.00	3768200.00	8.23757	365050.00	3768200.00	4.57947
365150.00	3768200.00	2.55104	365250.00	3768200.00	1.54963

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          365350.00    3768200.00         0.96496
365450.00    3768200.00         0.63924
          365550.00    3768200.00         0.44360
365650.00    3768200.00         0.32051
          363650.00    3768300.00         0.11965
363750.00    3768300.00         0.13867
          363850.00    3768300.00         0.16445
363950.00    3768300.00         0.19908
          364050.00    3768300.00         0.24980
364150.00    3768300.00         0.32515
          364250.00    3768300.00         0.44193
364350.00    3768300.00         0.61300
          364450.00    3768300.00         0.83647
364550.00    3768300.00         1.11489
          364650.00    3768300.00         1.69789
364750.00    3768300.00         2.57936
          364850.00    3768300.00         4.11939
364950.00    3768300.00         4.59869
          365050.00    3768300.00         3.75872
365150.00    3768300.00         2.64939
          365250.00    3768300.00         1.84744
365350.00    3768300.00         1.22797
          365450.00    3768300.00         0.83336
365550.00    3768300.00         0.59343
          365650.00    3768300.00         0.43151
363650.00    3768400.00         0.10684
          363750.00    3768400.00         0.12208
363850.00    3768400.00         0.14163
          363950.00    3768400.00         0.16828
364050.00    3768400.00         0.20547
          364150.00    3768400.00         0.26022
364250.00    3768400.00         0.33984
          364350.00    3768400.00         0.42869
364450.00    3768400.00         0.52366
          364550.00    3768400.00         0.64313
364650.00    3768400.00         0.88594
          364750.00    3768400.00         1.19278
364850.00    3768400.00         1.79645
          364950.00    3768400.00         2.28694
365050.00    3768400.00         2.36695
          365150.00    3768400.00         2.10137
365250.00    3768400.00         1.70653
          365350.00    3768400.00         1.27507
365450.00    3768400.00         0.93364
          365550.00    3768400.00         0.68077
365650.00    3768400.00         0.53129
          363650.00    3768500.00         0.09362
363750.00    3768500.00         0.10555
          363850.00    3768500.00         0.12146
363950.00    3768500.00         0.14011
          364050.00    3768500.00         0.16967
364150.00    3768500.00         0.21216
          364250.00    3768500.00         0.25690
364350.00    3768500.00         0.29289
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364450.00	3768500.00	0.34134	364550.00	3768500.00	0.41868
364650.00	3768500.00	0.53390	364750.00	3768500.00	0.68393
364850.00	3768500.00	0.92651	364950.00	3768500.00	1.22790
365050.00	3768500.00	1.40785	365150.00	3768500.00	1.45254
365250.00	3768500.00	1.34219	365350.00	3768500.00	1.13775
365450.00	3768500.00	0.92549	365550.00	3768500.00	0.71672
365650.00	3768500.00	0.55406	363650.00	3768600.00	0.08148
363750.00	3768600.00	0.09138	363850.00	3768600.00	0.10166
363950.00	3768600.00	0.12075	364050.00	3768600.00	0.14240
364150.00	3768600.00	0.16925	364250.00	3768600.00	0.18534
364350.00	3768600.00	0.21044	364450.00	3768600.00	0.23742
364550.00	3768600.00	0.28170	364650.00	3768600.00	0.35620
364750.00	3768600.00	0.42888	364850.00	3768600.00	0.54944

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          364950.00    3768600.00         0.72119
365050.00    3768600.00         0.84862
          365150.00    3768600.00         0.96226
365250.00    3768600.00         0.96676
          365350.00    3768600.00         0.90851
365450.00    3768600.00         0.80505
          365550.00    3768600.00         0.68613
365650.00    3768600.00         0.56477
          363650.00    3768700.00         0.07131
363750.00    3768700.00         0.07982
          363850.00    3768700.00         0.08985
363950.00    3768700.00         0.10392
          364050.00    3768700.00         0.11948
364150.00    3768700.00         0.13546
          364250.00    3768700.00         0.14424
364350.00    3768700.00         0.15689
          364450.00    3768700.00         0.17649
364550.00    3768700.00         0.20802
          364650.00    3768700.00         0.25092
364750.00    3768700.00         0.28689
          364850.00    3768700.00         0.35092
364950.00    3768700.00         0.45287
          365050.00    3768700.00         0.54467
365150.00    3768700.00         0.63566
          365250.00    3768700.00         0.68438
365350.00    3768700.00         0.68329
          365450.00    3768700.00         0.65640
365550.00    3768700.00         0.59653
          365650.00    3768700.00         0.52841
363650.00    3768800.00         0.06300
          363750.00    3768800.00         0.07063
363850.00    3768800.00         0.08009
          363950.00    3768800.00         0.08885
364050.00    3768800.00         0.09705
          364150.00    3768800.00         0.10979
364250.00    3768800.00         0.11383
          364350.00    3768800.00         0.12243
364450.00    3768800.00         0.13458
          364550.00    3768800.00         0.15472
364650.00    3768800.00         0.18808
          364750.00    3768800.00         0.20762
364850.00    3768800.00         0.24622
          364950.00    3768800.00         0.30735
365050.00    3768800.00         0.36857
          365150.00    3768800.00         0.43633
365250.00    3768800.00         0.47897
          365350.00    3768800.00         0.50397
365450.00    3768800.00         0.50974
          365550.00    3768800.00         0.49535
365650.00    3768800.00         0.46268
          363650.00    3768900.00         0.05706
363750.00    3768900.00         0.06423
          363850.00    3768900.00         0.07008
363950.00    3768900.00         0.07522
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364050.00	3768900.00	0.08035	364150.00	3768900.00	0.08591
364250.00	3768900.00	0.09184	364350.00	3768900.00	0.09803
364450.00	3768900.00	0.10788	364550.00	3768900.00	0.12002
364650.00	3768900.00	0.14148	364750.00	3768900.00	0.16461
364850.00	3768900.00	0.18116	364950.00	3768900.00	0.22222
365050.00	3768900.00	0.26293	365150.00	3768900.00	0.31129
365250.00	3768900.00	0.34617	365350.00	3768900.00	0.37424
365450.00	3768900.00	0.39324	365550.00	3768900.00	0.39559
365650.00	3768900.00	0.38786	363650.00	3769000.00	0.05274
363750.00	3769000.00	0.05767	363850.00	3769000.00	0.06119
363950.00	3769000.00	0.06362	364050.00	3769000.00	0.06731
364150.00	3769000.00	0.07224	364250.00	3769000.00	0.07630
364350.00	3769000.00	0.08205	364450.00	3769000.00	0.08926

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          364550.00    3769000.00         0.09921
364650.00    3769000.00         0.11077
          364750.00    3769000.00         0.12468
364850.00    3769000.00         0.14125
          364950.00    3769000.00         0.16713
365050.00    3769000.00         0.19658
          365150.00    3769000.00         0.22798
365250.00    3769000.00         0.25695
          365350.00    3769000.00         0.28269
365450.00    3769000.00         0.30265
          365550.00    3769000.00         0.31430
365650.00    3769000.00         0.32023
          364450.00    3767750.00         1.49845
364475.00    3767750.00         1.64899
          364500.00    3767750.00         1.80911
364525.00    3767750.00         1.97652
          364550.00    3767750.00         2.14110
364575.00    3767750.00         2.28965
          364600.00    3767750.00         2.42716
364625.00    3767750.00         2.52725
          364650.00    3767750.00         2.56987
364675.00    3767750.00         2.55970
          364700.00    3767750.00         2.48702
364725.00    3767750.00         2.35977
          364750.00    3767750.00         2.19581
364775.00    3767750.00         2.01678
          364800.00    3767750.00         1.82647
364825.00    3767750.00         1.64458
          364850.00    3767750.00         1.47209
364875.00    3767750.00         1.31221
          364900.00    3767750.00         1.17024
364925.00    3767750.00         1.04367
          364950.00    3767750.00         0.93144
364450.00    3767775.00         1.69704
          364475.00    3767775.00         1.89668
364500.00    3767775.00         2.11912
          364525.00    3767775.00         2.35705
364550.00    3767775.00         2.59774
          364575.00    3767775.00         2.83359
364600.00    3767775.00         3.04663
          364625.00    3767775.00         3.19897
364650.00    3767775.00         3.28044
          364675.00    3767775.00         3.26133
364700.00    3767775.00         3.14234
          364725.00    3767775.00         2.94742
364750.00    3767775.00         2.70376
          364775.00    3767775.00         2.43780
364800.00    3767775.00         2.17589
          364825.00    3767775.00         1.92745
364850.00    3767775.00         1.70563
          364875.00    3767775.00         1.49975
364900.00    3767775.00         1.32230
          364925.00    3767775.00         1.16532
364950.00    3767775.00         1.03041
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364450.00	3767800.00	1.91802	364475.00	3767800.00	2.18468
364500.00	3767800.00	2.48960	364525.00	3767800.00	2.82826
364550.00	3767800.00	3.19615	364575.00	3767800.00	3.56645
364600.00	3767800.00	3.91329	364625.00	3767800.00	4.18697
364650.00	3767800.00	4.33264	364675.00	3767800.00	4.29607
364700.00	3767800.00	4.09833	364725.00	3767800.00	3.77636
364750.00	3767800.00	3.38829	364775.00	3767800.00	3.00313
364800.00	3767800.00	2.62872	364825.00	3767800.00	2.28982
364850.00	3767800.00	1.98572	364875.00	3767800.00	1.72504
364900.00	3767800.00	1.49850	364925.00	3767800.00	1.30459
364950.00	3767800.00	1.14269	364450.00	3767825.00	2.15981
364475.00	3767825.00	2.50840	364500.00	3767825.00	2.92408
364525.00	3767825.00	3.41557	364550.00	3767825.00	3.97908

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          364575.00    3767825.00         4.58925
364600.00    3767825.00         5.19968
          364625.00    3767825.00         5.70712
364650.00    3767825.00         5.99014
          364675.00    3767825.00         5.93943
364700.00    3767825.00         5.55219
          364725.00    3767825.00         4.96773
364750.00    3767825.00         4.35803
          364775.00    3767825.00         3.76548
364800.00    3767825.00         3.22400
          364825.00    3767825.00         2.74281
364850.00    3767825.00         2.33767
          364875.00    3767825.00         1.99313
364900.00    3767825.00         1.70347
          364925.00    3767825.00         1.46623
364950.00    3767825.00         1.26851
          364450.00    3767850.00         2.40997
364475.00    3767850.00         2.85770
          364500.00    3767850.00         3.41555
364525.00    3767850.00         4.12132
          364550.00    3767850.00         4.99466
364575.00    3767850.00         6.04109
          364600.00    3767850.00         7.18950
364625.00    3767850.00         8.24747
          364650.00    3767850.00         8.86553
364675.00    3767850.00         8.75514
          364700.00    3767850.00         7.89078
364725.00    3767850.00         6.80678
          364750.00    3767850.00         5.73579
364775.00    3767850.00         4.79908
          364800.00    3767850.00         4.00212
364825.00    3767850.00         3.33888
          364850.00    3767850.00         2.76675
364875.00    3767850.00         2.31380
          364900.00    3767850.00         1.94899
364925.00    3767850.00         1.65318
          364950.00    3767850.00         1.41132
364450.00    3767875.00         2.65359
          364475.00    3767875.00         3.21386
364500.00    3767875.00         3.95272
          364525.00    3767875.00         4.93978
364550.00    3767875.00         6.27546
          364575.00    3767875.00         8.08432
364600.00    3767875.00        10.35453
          364625.00    3767875.00        12.84657
364650.00    3767875.00        14.60319
          364675.00    3767875.00        14.15216
364700.00    3767875.00        12.05946
          364725.00    3767875.00         9.70371
364750.00    3767875.00         7.76454
          364775.00    3767875.00         6.24834
364800.00    3767875.00         5.06130
          364825.00    3767875.00         4.10415
364850.00    3767875.00         3.32685
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364875.00	3767875.00	2.71638	364900.00	3767875.00	2.24453
364925.00	3767875.00	1.87662	364950.00	3767875.00	1.58461
364450.00	3767900.00	2.86929	364475.00	3767900.00	3.53723
364500.00	3767900.00	4.47484	364525.00	3767900.00	5.79984
364550.00	3767900.00	7.76273	364575.00	3767900.00	10.73875
364600.00	3767900.00	15.40978	364625.00	3767900.00	22.36789
364650.00	3767900.00	28.79912	364700.00	3767900.00	19.97697
364725.00	3767900.00	14.40370	364750.00	3767900.00	10.86350
364775.00	3767900.00	8.43957	364800.00	3767900.00	6.59485
364825.00	3767900.00	5.16381	364850.00	3767900.00	4.06730
364875.00	3767900.00	3.24951	364900.00	3767900.00	2.62829
364925.00	3767900.00	2.15507	364950.00	3767900.00	1.79472
364450.00	3767925.00	3.03973	364475.00	3767925.00	3.80989

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         364500.00    3767925.00        4.89722
364525.00    3767925.00        6.50100
         364550.00    3767925.00        9.22059
364575.00    3767925.00       13.81432
         364600.00    3767925.00       22.57190
364625.00    3767925.00       40.73728
         364675.00    3767925.00       68.19515
364700.00    3767925.00       36.96011
         364750.00    3767925.00       16.34225
364775.00    3767925.00       12.24568
         364800.00    3767925.00        9.14534
364825.00    3767925.00        6.79408
         364850.00    3767925.00        5.13546
364875.00    3767925.00        3.97327
         364900.00    3767925.00        3.13697
364925.00    3767925.00        2.52952
         364950.00    3767925.00        2.07478
364450.00    3767950.00        3.14198
         364475.00    3767950.00        3.96968
364500.00    3767950.00        5.17039
         364525.00    3767950.00        7.00137
364550.00    3767950.00       10.08746
         364575.00    3767950.00       16.21936
364600.00    3767950.00       29.49989
         364775.00    3767950.00       19.31926
364800.00    3767950.00       13.36299
         364825.00    3767950.00        9.26456
364850.00    3767950.00        6.68393
         364875.00    3767950.00        4.97231
364900.00    3767950.00        3.83317
         364925.00    3767950.00        3.03375
364950.00    3767950.00        2.45539
         364450.00    3767975.00        3.15869
364475.00    3767975.00        4.00376
         364500.00    3767975.00        5.25104
364525.00    3767975.00        7.16445
         364550.00    3767975.00       10.34156
364575.00    3767975.00       16.95205
         364825.00    3767975.00       12.68509
364850.00    3767975.00        8.77827
         364875.00    3767975.00        6.36325
364900.00    3767975.00        4.82041
         364925.00    3767975.00        3.74910
364950.00    3767975.00        2.99490
         364450.00    3768000.00        3.08965
364475.00    3768000.00        3.89664
         364500.00    3768000.00        5.08190
364525.00    3768000.00        6.91488
         364800.00    3768000.00       28.83071
364825.00    3768000.00       17.56525
         364850.00    3768000.00       11.80324
364875.00    3768000.00        8.38161
         364900.00    3768000.00        6.23195
364925.00    3768000.00        4.77317
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364950.00	3768000.00	3.76897	364450.00	3768025.00	2.95968
364475.00	3768025.00	3.70154	364500.00	3768025.00	4.75982
364525.00	3768025.00	6.34545	364800.00	3768025.00	46.42829
364825.00	3768025.00	26.17878	364850.00	3768025.00	16.50040
364875.00	3768025.00	11.35145	364900.00	3768025.00	8.22462
364925.00	3768025.00	6.19617	364950.00	3768025.00	4.78014
364450.00	3768050.00	2.80752	364475.00	3768050.00	3.48225
364500.00	3768050.00	4.34860	364525.00	3768050.00	5.63785
364550.00	3768050.00	7.54010	364600.00	3768050.00	14.74094
364625.00	3768050.00	22.87772	364775.00	3768050.00	98.59601
364800.00	3768050.00	56.66104	364825.00	3768050.00	34.05236
364850.00	3768050.00	21.73647	364875.00	3768050.00	14.81235
364900.00	3768050.00	10.59508	364925.00	3768050.00	7.88385

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         364950.00    3768050.00        6.01150
364450.00    3768075.00        2.58906
         364475.00    3768075.00        3.19372
364500.00    3768075.00        3.85827
         364525.00    3768075.00        4.84681
364550.00    3768075.00        6.24226
         364575.00    3768075.00        8.26974
364625.00    3768075.00       16.07705
         364650.00    3768075.00       24.58074
364750.00    3768075.00      116.24075
         364775.00    3768075.00       84.30718
364800.00    3768075.00       55.78650
         364825.00    3768075.00       37.27560
364850.00    3768075.00       25.16731
         364875.00    3768075.00       17.60363
364900.00    3768075.00       12.76519
         364925.00    3768075.00        9.52559
364950.00    3768075.00        7.28638
         364450.00    3768100.00        2.32087
364475.00    3768100.00        2.79639
         364500.00    3768100.00        3.38428
364525.00    3768100.00        4.10025
         364550.00    3768100.00        5.13791
364575.00    3768100.00        6.31189
         364600.00    3768100.00        8.42654
364650.00    3768100.00       15.58632
         364675.00    3768100.00       21.65368
364725.00    3768100.00       47.15553
         364750.00    3768100.00       58.39376
364775.00    3768100.00       56.10353
         364800.00    3768100.00       45.90033
364825.00    3768100.00       34.54755
         364850.00    3768100.00       25.39648
364875.00    3768100.00       18.83460
         364900.00    3768100.00       14.06487
364925.00    3768100.00       10.73213
         364950.00    3768100.00        8.33612
364450.00    3768125.00        2.05288
         364475.00    3768125.00        2.45859
364500.00    3768125.00        2.93345
         364525.00    3768125.00        3.39734
364550.00    3768125.00        3.86149
         364575.00    3768125.00        4.72214
364600.00    3768125.00        6.24486
         364625.00    3768125.00        8.06794
364675.00    3768125.00       13.56261
         364700.00    3768125.00       18.17973
364725.00    3768125.00       24.57533
         364750.00    3768125.00       31.43795
364775.00    3768125.00       34.65236
         364800.00    3768125.00       32.89528
364825.00    3768125.00       28.23190
         364850.00    3768125.00       23.01768
364875.00    3768125.00       18.24952
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364900.00	3768125.00	14.23518	364925.00	3768125.00	11.28685
364950.00	3768125.00	8.99893	364450.00	3768150.00	1.84038
364475.00	3768150.00	2.11986	364500.00	3768150.00	2.51017
364525.00	3768150.00	2.91330	364550.00	3768150.00	3.34973
364575.00	3768150.00	3.79147	364600.00	3768150.00	4.81623
364625.00	3768150.00	5.89966	364650.00	3768150.00	7.32417
364700.00	3768150.00	11.43327	364725.00	3768150.00	14.64335
364750.00	3768150.00	18.60396	364775.00	3768150.00	21.60205
364800.00	3768150.00	22.59558	364825.00	3768150.00	21.49246
364850.00	3768150.00	19.11925	364875.00	3768150.00	16.30556
364900.00	3768150.00	13.56228	364925.00	3768150.00	11.17450
364950.00	3768150.00	9.17548	364450.00	3768175.00	1.62729
364475.00	3768175.00	1.85792	364500.00	3768175.00	2.14239

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         364525.00    3768175.00        2.45498
364550.00    3768175.00        2.81652
         364575.00    3768175.00        3.13764
364600.00    3768175.00        3.65300
         364625.00    3768175.00        4.36980
364650.00    3768175.00        5.07836
         364675.00    3768175.00        6.29851
364700.00    3768175.00        7.85675
         364725.00    3768175.00        9.67428
364750.00    3768175.00       11.90783
         364775.00    3768175.00       14.06932
364800.00    3768175.00       15.52499
         364825.00    3768175.00       15.81335
364850.00    3768175.00       15.10891
         364875.00    3768175.00       13.74875
364900.00    3768175.00       12.10792
         364925.00    3768175.00       10.42086
364950.00    3768175.00        8.89989
         364450.00    3768200.00        1.43851
364475.00    3768200.00        1.60748
         364500.00    3768200.00        1.83038
364525.00    3768200.00        2.03848
         364550.00    3768200.00        2.27212
364575.00    3768200.00        2.56588
         364600.00    3768200.00        2.89072
364625.00    3768200.00        3.31361
         364650.00    3768200.00        3.89113
364675.00    3768200.00        4.74643
         364700.00    3768200.00        5.67287
364725.00    3768200.00        6.81463
         364750.00    3768200.00        8.17281
364775.00    3768200.00        9.63975
         364800.00    3768200.00       10.84056
364825.00    3768200.00       11.59385
         364850.00    3768200.00       11.65580
364875.00    3768200.00       11.16996
         364900.00    3768200.00       10.36010
364925.00    3768200.00        9.32628
         364950.00    3768200.00        8.23757
364450.00    3768225.00        1.26721
         364475.00    3768225.00        1.39728
364500.00    3768225.00        1.56671
         364525.00    3768225.00        1.67062
364550.00    3768225.00        1.86250
         364575.00    3768225.00        2.08062
364600.00    3768225.00        2.34505
         364625.00    3768225.00        2.66539
364650.00    3768225.00        3.06776
         364675.00    3768225.00        3.67567
364700.00    3768225.00        4.28200
         364725.00    3768225.00        5.02301
364750.00    3768225.00        5.92215
         364775.00    3768225.00        6.88252
364800.00    3768225.00        7.80217
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
364825.00	3768225.00	8.54894	364850.00	3768225.00	8.90886
364875.00	3768225.00	8.91634	364900.00	3768225.00	8.61898
364925.00	3768225.00	8.04689	364950.00	3768225.00	7.36719
364450.00	3768250.00	1.07507	364475.00	3768250.00	1.17821
364500.00	3768250.00	1.28974	364525.00	3768250.00	1.41199
364550.00	3768250.00	1.54523	364575.00	3768250.00	1.71098
364600.00	3768250.00	1.91404	364625.00	3768250.00	2.17558
364650.00	3768250.00	2.45450	364675.00	3768250.00	2.77826
364700.00	3768250.00	3.31983	364725.00	3768250.00	3.71126
364750.00	3768250.00	4.31535	364775.00	3768250.00	5.02644
364800.00	3768250.00	5.69862	364825.00	3768250.00	6.31269
364850.00	3768250.00	6.81429	364875.00	3768250.00	7.09366
364900.00	3768250.00	7.04327	364925.00	3768250.00	6.80958

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         364950.00    3768250.00        6.43085
364699.92    3767935.96       52.32316
         364607.94    3768036.31       19.56320
364622.21    3768048.74       21.99657
         364636.47    3768061.16       24.29315
364650.74    3768073.58       25.66652
         364665.00    3768086.01       25.19966
364679.27    3768098.43       23.82114
         364693.53    3768110.85       22.53288
364722.98    3768107.35       37.30739
         364734.19    3768091.56       67.64567
364745.41    3768075.77      117.36089
         364756.62    3768059.98      142.14710
364767.84    3768044.19      116.37822
         364779.05    3768028.40       85.51733
364790.27    3768012.61       48.02161
         364801.49    3767996.82       26.36547
364803.83    3767974.54       18.08842
         364780.53    3767951.89       18.44612
364764.89    3767940.82       18.50970
         364749.25    3767929.74       18.05448
364733.61    3767918.67       17.78065
         364717.98    3767907.59       18.03001
364702.34    3767896.51       18.00059
         364686.70    3767885.44       16.67020
364667.26    3767883.38       17.78536
         364642.52    3767904.38       31.30362
364629.69    3767918.35       38.59236
         364616.86    3767932.33       38.14738
364604.03    3767946.30       32.00094
         364591.20    3767960.27       24.53617
364578.37    3767974.25       18.26550
         364565.55    3767988.22       13.56563
364595.00    3768046.17       14.22185
         364621.08    3768021.23       31.37976
364706.67    3768095.77       40.80214
         364785.18    3767985.24       31.32215
364786.03    3767981.84       28.91923
         364784.61    3767979.29       28.57091
364675.14    3767901.76       28.65332
         364670.08    3767903.93       32.14701
364567.45    3768015.72       12.05560
         364567.69    3768021.74       11.59965
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
363650.00	3767000.00	18.94042	(14122608)	363750.00	3767000.00	19.33853	(14122608)
363850.00	3767000.00	21.28325	(15012608)	363950.00	3767000.00	23.59475	(15012608)
364050.00	3767000.00	24.75478	(15012608)	364150.00	3767000.00	26.60616	(16021608)
364250.00	3767000.00	27.05428	(16021608)	364350.00	3767000.00	30.09767	(14112708)
364450.00	3767000.00	31.37966	(14112708)	364550.00	3767000.00	28.95779	(14112708)
364650.00	3767000.00	27.80625	(16122708)	364750.00	3767000.00	25.14112	(16123008)
364850.00	3767000.00	25.63472	(16120208)	364950.00	3767000.00	25.43869	(16020108)
365050.00	3767000.00	27.07834	(16020108)	365150.00	3767000.00	26.40295	(16020108)
365250.00	3767000.00	23.43199	(16020108)	365350.00	3767000.00	19.30228	(16020108)
365450.00	3767000.00	15.05362	(16020108)	365550.00	3767000.00	12.52225	(16010808)
365650.00	3767000.00	13.22374	(15122508)	363650.00	3767100.00	20.48124	(14122608)
363750.00	3767100.00	21.89196	(14122608)	363850.00	3767100.00	22.36847	(14122608)
363950.00	3767100.00	25.18128	(15012608)	364050.00	3767100.00	27.98985	(15012608)

364150.00 3767100.00 29.22632 (16021608)
364250.00 3767100.00 31.68519 (16021608)
364350.00 3767100.00 33.58986 (14112708)
364450.00 3767100.00 36.71121 (14112708)
364550.00 3767100.00 34.69655 (14112708)
364650.00 3767100.00 32.26304 (16122708)
364750.00 3767100.00 29.59664 (16120208)
364850.00 3767100.00 29.63642 (16120208)
364950.00 3767100.00 30.62653 (16020108)
365050.00 3767100.00 31.67354 (16020108)
365150.00 3767100.00 29.05494 (16020108)
365250.00 3767100.00 24.49353 (16020108)
365350.00 3767100.00 19.15324 (16020108)
365450.00 3767100.00 14.67727 (16010808)
365550.00 3767100.00 15.43783 (15122508)
365650.00 3767100.00 15.90663 (15122508)
363650.00 3767200.00 21.87448 (16122908)
363750.00 3767200.00 23.67736 (14122608)
363850.00 3767200.00 25.66415 (14122608)
363950.00 3767200.00 26.77194 (14122608)
364050.00 3767200.00 30.63821 (15012608)
364150.00 3767200.00 34.02246 (15012608)
364250.00 3767200.00 36.21945 (16021608)
364350.00 3767200.00 37.73123 (16021608)
364450.00 3767200.00 43.23208 (14112708)
364550.00 3767200.00 42.24303 (14112708)
364650.00 3767200.00 38.64815 (16122708)
364750.00 3767200.00 35.06983 (16120208)
364850.00 3767200.00 34.48408 (16120208)
364950.00 3767200.00 37.47509 (16020108)
365050.00 3767200.00 36.60359 (16020108)
365150.00 3767200.00 31.55668 (16020108)
365250.00 3767200.00 24.91870 (16020108)
365350.00 3767200.00 18.32998 (16020108)
365450.00 3767200.00 18.44157 (15122508)
365550.00 3767200.00 18.79839 (15122508)
365650.00 3767200.00 18.49873 (15122508)
363650.00 3767300.00 23.51622 (16122908)
363750.00 3767300.00 25.67658 (16122908)
363850.00 3767300.00 28.22479 (14122608)
363950.00 3767300.00 31.29847 (14122608)
364050.00 3767300.00 33.21816 (15012608)
364150.00 3767300.00 39.13456 (15012608)
364250.00 3767300.00 42.37033 (15012608)
364350.00 3767300.00 45.71527 (16021608)
364450.00 3767300.00 50.69381 (14112708)
364550.00 3767300.00 52.65865 (14112708)
364650.00 3767300.00 46.34485 (16122708)
364750.00 3767300.00 43.28542 (16120208)
364850.00 3767300.00 42.53970 (16020108)
364950.00 3767300.00 45.83673 (16020108)
365050.00 3767300.00 41.76873 (16020108)
365150.00 3767300.00 33.31989 (16020108)
365250.00 3767300.00 24.35192 (16020108)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
365350.00	3767300.00	22.57430	(15122508)	365450.00	3767300.00	22.83514	(15122508)
365550.00	3767300.00	21.98832	(15122508)	365650.00	3767300.00	20.56891	(15122508)
363650.00	3767400.00	23.91781	(16122908)	363750.00	3767400.00	27.60911	(16122908)
363850.00	3767400.00	31.27338	(16122908)	363950.00	3767400.00	34.82692	(14122608)
364050.00	3767400.00	39.83883	(14122608)	364150.00	3767400.00	44.06853	(15012608)
364250.00	3767400.00	51.86353	(15012608)	364350.00	3767400.00	55.67570	(16021608)
364450.00	3767400.00	59.97595	(14112708)	364550.00	3767400.00	66.08729	(14112708)
364650.00	3767400.00	58.82160	(16122708)	364750.00	3767400.00	54.47678	(16120208)
364850.00	3767400.00	55.75365	(16020108)	364950.00	3767400.00	56.18599	(16020108)
365050.00	3767400.00	46.64715	(16020108)	365150.00	3767400.00	33.93374	(16020108)
365250.00	3767400.00	28.37462	(15122508)	365350.00	3767400.00	28.33662	(15122508)
365450.00	3767400.00	26.86101	(15122508)	365550.00	3767400.00	24.40163	(15122508)
365650.00	3767400.00	21.67653	(15122508)	363650.00	3767500.00	24.09558	(14123008)

363750.00 3767500.00 28.06302 (14123008)
363850.00 3767500.00 33.23432 (16122908)
363950.00 3767500.00 39.17803 (16122908)
364050.00 3767500.00 45.32388 (16122908)
364150.00 3767500.00 53.63049 (14122608)
364250.00 3767500.00 60.84185 (15012608)
364350.00 3767500.00 68.84001 (15012608)
364450.00 3767500.00 76.47878 (16021608)
364550.00 3767500.00 87.45116 (14112708)
364650.00 3767500.00 76.06954 (14112708)
364750.00 3767500.00 70.49126 (16120208)
364850.00 3767500.00 74.32795 (16020108)
364950.00 3767500.00 67.80020 (16020108)
365050.00 3767500.00 49.95635 (16020108)
365150.00 3767500.00 37.50564 (15122508)
365250.00 3767500.00 36.81063 (15122508)
365350.00 3767500.00 33.68935 (15122508)
365450.00 3767500.00 29.58337 (15122508)
365550.00 3767500.00 25.38551 (15122508)
365650.00 3767500.00 21.24774 (15122508)
363650.00 3767600.00 24.93485 (15010608)
363750.00 3767600.00 28.22277 (15010608)
363850.00 3767600.00 33.11959 (14123008)
363950.00 3767600.00 39.73241 (14123008)
364050.00 3767600.00 49.52135 (16122908)
364150.00 3767600.00 59.77380 (16122908)
364250.00 3767600.00 71.61271 (14122608)
364350.00 3767600.00 84.30170 (15012608)
364450.00 3767600.00 100.39988 (16021608)
364550.00 3767600.00 115.98830 (14112708)
364650.00 3767600.00 109.63305 (14112708)
364750.00 3767600.00 95.71262 (16120208)
364850.00 3767600.00 100.51996 (16020108)
364950.00 3767600.00 78.91439 (16020108)
365050.00 3767600.00 53.35858 (15122508)
365150.00 3767600.00 50.65628 (15122508)
365250.00 3767600.00 43.98359 (15122508)
365350.00 3767600.00 36.49223 (15122508)
365450.00 3767600.00 29.85838 (15122508)
365550.00 3767600.00 24.22514 (15122508)
365650.00 3767600.00 19.38610 (15122508)
363650.00 3767700.00 25.68102 (15011508)
363750.00 3767700.00 29.46379 (15011508)
363850.00 3767700.00 42.38413 (15011508)
363950.00 3767700.00 40.70087 (14123016)
364050.00 3767700.00 49.14982 (14123008)
364150.00 3767700.00 63.26048 (16122908)
364250.00 3767700.00 82.69026 (16122908)
364350.00 3767700.00 109.23917 (15122216)
364450.00 3767700.00 137.15776 (15012608)
364550.00 3767700.00 160.84846 (16021608)
364650.00 3767700.00 170.91103 (14112708)
364750.00 3767700.00 150.83641 (16020108)
364850.00 3767700.00 137.49116 (16020108)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364950.00	3767700.00	85.83286	(16020108)	365050.00	3767700.00	74.20365	(15122508)
365150.00	3767700.00	60.72857	(15122508)	365250.00	3767700.00	46.46461	(15122508)
365350.00	3767700.00	35.54150	(15122508)	365450.00	3767700.00	27.09918	(15122508)
365550.00	3767700.00	20.87725	(15122508)	365650.00	3767700.00	17.80175	(15121408)
363650.00	3767800.00	52.63086	(12120308)	363750.00	3767800.00	73.83136	(14120908)
363850.00	3767800.00	93.84894	(12011608)	363950.00	3767800.00	95.15344	(15120208)
364050.00	3767800.00	76.74371	(15011508)	364150.00	3767800.00	70.02244	(14123016)
364250.00	3767800.00	91.09707	(14123016)	364350.00	3767800.00	121.80180	(16122908)
364450.00	3767800.00	207.82394	(15122216)	364550.00	3767800.00	260.39866	(15012608)
364650.00	3767800.00	308.22977	(14112708)	364750.00	3767800.00	252.57561	(16020108)
364850.00	3767800.00	167.86832	(16020108)	364950.00	3767800.00	124.28038	(15122508)
365050.00	3767800.00	89.04943	(15122508)	365150.00	3767800.00	61.35874	(15122508)
365250.00	3767800.00	42.39271	(15122508)	365350.00	3767800.00	30.85867	(15121408)

365450.00 3767800.00 26.46601 (15121408)
365550.00 3767800.00 22.94580 (15121408)
365650.00 3767800.00 19.99100 (15121408)
363650.00 3767900.00 78.05142 (16010608)
363750.00 3767900.00 97.44028 (12012308)
363850.00 3767900.00 110.84879 (14012308)
363950.00 3767900.00 111.47967 (14121108)
364050.00 3767900.00 121.47816 (12120308)
364150.00 3767900.00 92.48884 (12120308)
364250.00 3767900.00 87.15119 (15011508)
364350.00 3767900.00 134.51565 (14123016)
364450.00 3767900.00 254.67369 (14123016)
364550.00 3767900.00 516.87642 (15122216)
364650.00 3767900.00 869.12815 (12112008)
364750.00 3767900.00 447.97968 (12112008)
364850.00 3767900.00 252.17517 (15122508)
364950.00 3767900.00 159.17862 (16122716)
365050.00 3767900.00 89.43906 (16122716)
365150.00 3767900.00 57.11159 (15121408)
365250.00 3767900.00 43.27323 (15121408)
365350.00 3767900.00 34.54929 (15121408)
365450.00 3767900.00 28.54369 (15121408)
365550.00 3767900.00 23.94808 (15121408)
365650.00 3767900.00 20.41196 (15121408)
363650.00 3768000.00 97.78651 (12120508)
363750.00 3768000.00 111.53973 (12120508)
363850.00 3768000.00 121.24097 (12120508)
363950.00 3768000.00 114.38971 (12012308)
364050.00 3768000.00 125.25554 (14112408)
364150.00 3768000.00 76.76701 (14112408)
364250.00 3768000.00 119.11938 (14112408)
364350.00 3768000.00 144.97906 (14112408)
364450.00 3768000.00 230.66768 (14112408)
364850.00 3768000.00 432.85780 (16031116)
364950.00 3768000.00 179.26310 (16031116)
365050.00 3768000.00 96.76015 (16031116)
365150.00 3768000.00 60.27889 (16031116)
365250.00 3768000.00 42.16606 (15121408)
365350.00 3768000.00 32.95362 (15121408)
365450.00 3768000.00 26.73731 (15121408)
365550.00 3768000.00 22.26664 (15121408)
365650.00 3768000.00 18.89033 (15121408)
363650.00 3768100.00 98.26741 (12120608)
363750.00 3768100.00 111.55430 (12120608)
363850.00 3768100.00 95.67358 (12120608)
363950.00 3768100.00 48.45565 (14112408)
364050.00 3768100.00 69.16233 (16010508)
364150.00 3768100.00 96.66006 (16010508)
364250.00 3768100.00 131.50444 (12121208)
364350.00 3768100.00 171.42356 (12121208)
364450.00 3768100.00 269.77788 (12112916)
364550.00 3768100.00 481.92398 (12112916)
364650.00 3768100.00 851.03162 (12112916)
364750.00 3768100.00 1774.19604 (15122116)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364850.00	3768100.00	570.51894	(12110816)	364950.00	3768100.00	250.19839	(12121716)
365050.00	3768100.00	158.81787	(12121716)	365150.00	3768100.00	93.18958	(12121716)
365250.00	3768100.00	58.32918	(12121716)	365350.00	3768100.00	38.53223	(12121716)
365450.00	3768100.00	26.52940	(16122916)	365550.00	3768100.00	20.65683	(16122916)
365650.00	3768100.00	16.38765	(16122916)	363650.00	3768200.00	79.23969	(12012508)
363750.00	3768200.00	55.35938	(16010508)	363850.00	3768200.00	72.63987	(14022508)
363950.00	3768200.00	84.10539	(12121208)	364050.00	3768200.00	106.96522	(12121208)
364150.00	3768200.00	135.12468	(15022008)	364250.00	3768200.00	160.26903	(15022008)
364350.00	3768200.00	159.26914	(12112916)	364450.00	3768200.00	194.63943	(15021708)
364550.00	3768200.00	298.13036	(15021708)	364650.00	3768200.00	424.85179	(12022708)
364750.00	3768200.00	504.80324	(15122116)	364850.00	3768200.00	247.41258	(15122116)
364950.00	3768200.00	240.97490	(12112816)	365050.00	3768200.00	122.82778	(12110816)
365150.00	3768200.00	81.56671	(12110816)	365250.00	3768200.00	65.69622	(12121716)

365350.00 3768200.00 53.69486 (12121716)
365450.00 3768200.00 41.50111 (12121716)
365550.00 3768200.00 31.80260 (12121716)
365650.00 3768200.00 24.31747 (12121716)
363650.00 3768300.00 55.69690 (12121208)
363750.00 3768300.00 67.66041 (12121208)
363850.00 3768300.00 81.52684 (15022008)
363950.00 3768300.00 99.23562 (15022008)
364050.00 3768300.00 115.03092 (15022008)
364150.00 3768300.00 124.65399 (15022008)
364250.00 3768300.00 120.67085 (15022008)
364350.00 3768300.00 170.67870 (15021708)
364450.00 3768300.00 209.88055 (14021808)
364550.00 3768300.00 207.37820 (14021808)
364650.00 3768300.00 286.23592 (12022708)
364750.00 3768300.00 182.94416 (12022708)
364850.00 3768300.00 258.44485 (15122116)
364950.00 3768300.00 207.27866 (14112108)
365050.00 3768300.00 150.03443 (14112108)
365150.00 3768300.00 87.47029 (12112816)
365250.00 3768300.00 52.22356 (14010316)
365350.00 3768300.00 42.42161 (14010316)
365450.00 3768300.00 34.07734 (12121716)
365550.00 3768300.00 31.28554 (12121716)
365650.00 3768300.00 27.10049 (12121716)
363650.00 3768400.00 68.00850 (16121308)
363750.00 3768400.00 78.55279 (16121308)
363850.00 3768400.00 86.62038 (16121308)
363950.00 3768400.00 90.11781 (15022008)
364050.00 3768400.00 90.57570 (12020808)
364150.00 3768400.00 95.86786 (15021708)
364250.00 3768400.00 128.98199 (15021708)
364350.00 3768400.00 148.90810 (14021808)
364450.00 3768400.00 159.68696 (14021808)
364550.00 3768400.00 154.37829 (12022708)
364650.00 3768400.00 215.10288 (12022708)
364750.00 3768400.00 131.07339 (12022708)
364850.00 3768400.00 173.88316 (15122116)
364950.00 3768400.00 156.09533 (14112108)
365050.00 3768400.00 164.76917 (14112108)
365150.00 3768400.00 115.36364 (14112108)
365250.00 3768400.00 62.03512 (12112816)
365350.00 3768400.00 39.27422 (12112816)
365450.00 3768400.00 33.63200 (14021708)
365550.00 3768400.00 29.49138 (14021708)
365650.00 3768400.00 20.16452 (14010316)
363650.00 3768500.00 70.69476 (16121308)
363750.00 3768500.00 73.88496 (12020808)
363850.00 3768500.00 78.89722 (12020808)
363950.00 3768500.00 81.35501 (12020808)
364050.00 3768500.00 83.89279 (12112608)
364150.00 3768500.00 104.48473 (15021708)
364250.00 3768500.00 116.21366 (14021808)
364350.00 3768500.00 130.75915 (14021808)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364450.00	3768500.00	98.52251	(14021808)	364550.00	3768500.00	140.56436	(12022708)
364650.00	3768500.00	165.13711	(12022708)	364750.00	3768500.00	101.32818	(12022708)
364850.00	3768500.00	104.24642	(15122116)	364950.00	3768500.00	101.57120	(15122116)
365050.00	3768500.00	129.08910	(14112108)	365150.00	3768500.00	120.47095	(14112108)
365250.00	3768500.00	86.43174	(14112108)	365350.00	3768500.00	55.68200	(14112108)
365450.00	3768500.00	42.74072	(14021708)	365550.00	3768500.00	55.31171	(14021708)
365650.00	3768500.00	49.29151	(14021708)	363650.00	3768600.00	69.99873	(12020808)
363750.00	3768600.00	70.56923	(12020808)	363850.00	3768600.00	68.78023	(12020808)
363950.00	3768600.00	76.87302	(12112608)	364050.00	3768600.00	87.83300	(15021708)
364150.00	3768600.00	96.21138	(14021808)	364250.00	3768600.00	109.71243	(14021808)
364350.00	3768600.00	91.35942	(14021808)	364450.00	3768600.00	70.10045	(12022708)
364550.00	3768600.00	123.10112	(12022708)	364650.00	3768600.00	130.26200	(12022708)
364750.00	3768600.00	79.83370	(12022708)	364850.00	3768600.00	60.80617	(15122116)

364950.00 3768600.00 83.21972 (15122116)
365050.00 3768600.00 86.20545 (14112108)
365150.00 3768600.00 101.77229 (14112108)
365250.00 3768600.00 97.20208 (14112108)
365350.00 3768600.00 74.15474 (14112108)
365450.00 3768600.00 51.18504 (14021708)
365550.00 3768600.00 51.48761 (14021708)
365650.00 3768600.00 53.37953 (14021708)
363650.00 3768700.00 61.23064 (12020808)
363750.00 3768700.00 53.87733 (12112608)
363850.00 3768700.00 72.47305 (12112608)
363950.00 3768700.00 81.07030 (12112608)
364050.00 3768700.00 82.09790 (14021808)
364150.00 3768700.00 89.47863 (14021808)
364250.00 3768700.00 82.87637 (14021808)
364350.00 3768700.00 55.11708 (14021808)
364450.00 3768700.00 70.99077 (12022708)
364550.00 3768700.00 107.98678 (12022708)
364650.00 3768700.00 105.75912 (12022708)
364750.00 3768700.00 78.43532 (14010308)
364850.00 3768700.00 37.40881 (14010308)
364950.00 3768700.00 61.54601 (15122116)
365050.00 3768700.00 54.01410 (15122116)
365150.00 3768700.00 77.08902 (14112108)
365250.00 3768700.00 87.00343 (14112108)
365350.00 3768700.00 82.10319 (14112108)
365450.00 3768700.00 62.85145 (14112108)
365550.00 3768700.00 44.44178 (14021708)
365650.00 3768700.00 46.56040 (14021708)
363650.00 3768800.00 51.31111 (12112608)
363750.00 3768800.00 66.91508 (12112608)
363850.00 3768800.00 74.58245 (12112608)
363950.00 3768800.00 76.23600 (12021308)
364050.00 3768800.00 79.62925 (14021808)
364150.00 3768800.00 73.42497 (14021808)
364250.00 3768800.00 55.79353 (14021808)
364350.00 3768800.00 36.81202 (12022708)
364450.00 3768800.00 68.25494 (12022708)
364550.00 3768800.00 94.67179 (14010308)
364650.00 3768800.00 87.56381 (12022708)
364750.00 3768800.00 73.93222 (14010308)
364850.00 3768800.00 34.77849 (14010308)
364950.00 3768800.00 43.13601 (15122116)
365050.00 3768800.00 48.06553 (15122116)
365150.00 3768800.00 51.40442 (14112108)
365250.00 3768800.00 70.56323 (14112108)
365350.00 3768800.00 77.35934 (14112108)
365450.00 3768800.00 69.78576 (14112108)
365550.00 3768800.00 54.37390 (14112108)
365650.00 3768800.00 38.56938 (14112108)
363650.00 3768900.00 62.28772 (12112608)
363750.00 3768900.00 68.69071 (12112608)
363850.00 3768900.00 71.71605 (12021308)
363950.00 3768900.00 71.31337 (12021308)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364050.00	3768900.00	67.47905	(14021808)	364150.00	3768900.00	54.10877	(14021808)
364250.00	3768900.00	34.15111	(14021808)	364350.00	3768900.00	39.04896	(12022708)
364450.00	3768900.00	65.05331	(12022708)	364550.00	3768900.00	96.83963	(14010308)
364650.00	3768900.00	89.44477	(14010308)	364750.00	3768900.00	58.61352	(14010308)
364850.00	3768900.00	32.25849	(14010308)	364950.00	3768900.00	29.52174	(15122116)
365050.00	3768900.00	39.33548	(15122116)	365150.00	3768900.00	33.26937	(15122116)
365250.00	3768900.00	50.10952	(14112108)	365350.00	3768900.00	63.97185	(14112108)
365450.00	3768900.00	66.67302	(14112108)	365550.00	3768900.00	60.24947	(14112108)
365650.00	3768900.00	47.57149	(14112108)	363650.00	3769000.00	63.99142	(12112608)
363750.00	3769000.00	65.96594	(12021308)	363850.00	3769000.00	66.20454	(12021308)
363950.00	3769000.00	60.80758	(14021808)	364050.00	3769000.00	51.39868	(14021808)
364150.00	3769000.00	36.06903	(14021808)	364250.00	3769000.00	21.36767	(12022708)
364350.00	3769000.00	40.86113	(12022708)	364450.00	3769000.00	61.27310	(12022708)

364550.00 3769000.00 90.27211 (14010308)
364650.00 3769000.00 92.05847 (14010308)
364750.00 3769000.00 63.06674 (14010308)
364850.00 3769000.00 30.20039 (14010308)
364950.00 3769000.00 19.99000 (15122116)
365050.00 3769000.00 30.59289 (15122116)
365150.00 3769000.00 30.89588 (15122116)
365250.00 3769000.00 32.61678 (14112108)
365350.00 3769000.00 47.92111 (14112108)
365450.00 3769000.00 57.66515 (14112108)
365550.00 3769000.00 58.83445 (14112108)
365650.00 3769000.00 51.52508 (14112108)
364450.00 3767750.00 154.62361 (15122216)
364475.00 3767750.00 167.17271 (15012608)
364500.00 3767750.00 180.86352 (15012608)
364525.00 3767750.00 192.18259 (15012608)
364550.00 3767750.00 200.73836 (16021608)
364575.00 3767750.00 205.07703 (16021608)
364600.00 3767750.00 223.23495 (14112708)
364625.00 3767750.00 231.80077 (14112708)
364650.00 3767750.00 221.98701 (14112708)
364675.00 3767750.00 203.16262 (14112708)
364700.00 3767750.00 194.83578 (16122016)
364725.00 3767750.00 192.41928 (16122016)
364750.00 3767750.00 193.27393 (16020108)
364775.00 3767750.00 194.30346 (16020108)
364800.00 3767750.00 184.48042 (16020108)
364825.00 3767750.00 171.98962 (16020108)
364850.00 3767750.00 155.40044 (16020108)
364875.00 3767750.00 136.13267 (16020108)
364900.00 3767750.00 117.95048 (16020108)
364925.00 3767750.00 106.24660 (15122508)
364950.00 3767750.00 103.02510 (15122508)
364450.00 3767775.00 186.42816 (15122216)
364475.00 3767775.00 187.02537 (15122216)
364500.00 3767775.00 197.44334 (15012608)
364525.00 3767775.00 216.59577 (15012608)
364550.00 3767775.00 226.13115 (15012608)
364575.00 3767775.00 239.03503 (16021608)
364600.00 3767775.00 255.45254 (14112708)
364625.00 3767775.00 265.10361 (14112708)
364650.00 3767775.00 260.25363 (14112708)
364675.00 3767775.00 235.65956 (14112708)
364700.00 3767775.00 233.46193 (16122016)
364725.00 3767775.00 222.65171 (16122016)
364750.00 3767775.00 222.26690 (16020108)
364775.00 3767775.00 214.71082 (16020108)
364800.00 3767775.00 200.74614 (16020108)
364825.00 3767775.00 181.68654 (16020108)
364850.00 3767775.00 163.33453 (16020108)
364875.00 3767775.00 139.74621 (16020108)
364900.00 3767775.00 123.18075 (15122508)
364925.00 3767775.00 118.89850 (15122508)
364950.00 3767775.00 113.66501 (15122508)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364450.00	3767800.00	207.82394	(15122216)	364475.00	3767800.00	228.07505	(15122216)
364500.00	3767800.00	232.47251	(15122216)	364525.00	3767800.00	237.43933	(15012608)
364550.00	3767800.00	260.39866	(15012608)	364575.00	3767800.00	273.21653	(16021608)
364600.00	3767800.00	286.68191	(14112708)	364625.00	3767800.00	309.96789	(14112708)
364650.00	3767800.00	308.22977	(14112708)	364675.00	3767800.00	275.40513	(14112708)
364700.00	3767800.00	283.36629	(16122016)	364725.00	3767800.00	257.50775	(16122016)
364750.00	3767800.00	252.57561	(16020108)	364775.00	3767800.00	241.57722	(16020108)
364800.00	3767800.00	219.60787	(16020108)	364825.00	3767800.00	195.26728	(16020108)
364850.00	3767800.00	167.86832	(16020108)	364875.00	3767800.00	144.27918	(15122508)
364900.00	3767800.00	139.13969	(15122508)	364925.00	3767800.00	131.65600	(15122508)
364950.00	3767800.00	124.28038	(15122508)	364450.00	3767825.00	211.22348	(15122216)
364475.00	3767825.00	253.37439	(15122216)	364500.00	3767825.00	286.21343	(15122216)
364525.00	3767825.00	297.43022	(15122216)	364550.00	3767825.00	294.27878	(15012608)

364575.00 3767825.00 318.79744 (15012608)
364600.00 3767825.00 339.91337 (16021608)
364625.00 3767825.00 364.74315 (14112708)
364650.00 3767825.00 368.79668 (14112708)
364675.00 3767825.00 347.76080 (16122016)
364700.00 3767825.00 346.78029 (16122016)
364725.00 3767825.00 299.05179 (16020108)
364750.00 3767825.00 292.39856 (16020108)
364775.00 3767825.00 271.03368 (16020108)
364800.00 3767825.00 241.27160 (16020108)
364825.00 3767825.00 206.17827 (16020108)
364850.00 3767825.00 174.75544 (16020108)
364875.00 3767825.00 165.02487 (15122508)
364900.00 3767825.00 154.72304 (15122508)
364925.00 3767825.00 144.54234 (15122508)
364950.00 3767825.00 133.10958 (15122508)
364450.00 3767850.00 198.71469 (16122908)
364475.00 3767850.00 250.84515 (15122216)
364500.00 3767850.00 313.77880 (15122216)
364525.00 3767850.00 369.91145 (15122216)
364550.00 3767850.00 396.04835 (15122216)
364575.00 3767850.00 375.83807 (15012608)
364600.00 3767850.00 407.98244 (16021608)
364625.00 3767850.00 440.02609 (14112708)
364650.00 3767850.00 453.85673 (14112708)
364675.00 3767850.00 468.96274 (16122016)
364700.00 3767850.00 422.43548 (16122016)
364725.00 3767850.00 358.80885 (16020108)
364750.00 3767850.00 331.65091 (16020108)
364775.00 3767850.00 297.18896 (16020108)
364800.00 3767850.00 259.56477 (16020108)
364825.00 3767850.00 223.15597 (16020108)
364850.00 3767850.00 197.84788 (15122508)
364875.00 3767850.00 184.68544 (15122508)
364900.00 3767850.00 170.52549 (15122508)
364925.00 3767850.00 155.20350 (15122508)
364950.00 3767850.00 138.98845 (15122508)
364450.00 3767875.00 231.03270 (14123016)
364475.00 3767875.00 251.03627 (14123016)
364500.00 3767875.00 300.07817 (15122216)
364525.00 3767875.00 398.90502 (15122216)
364550.00 3767875.00 497.90836 (15122216)
364575.00 3767875.00 561.43813 (15122216)
364600.00 3767875.00 516.21892 (15122216)
364625.00 3767875.00 600.45548 (16122616)
364650.00 3767875.00 584.07843 (14112708)
364675.00 3767875.00 653.00579 (16122016)
364700.00 3767875.00 505.07153 (16122016)
364725.00 3767875.00 426.60835 (12100508)
364750.00 3767875.00 371.66892 (16020108)
364775.00 3767875.00 322.87333 (16020108)
364800.00 3767875.00 279.18666 (16020108)
364825.00 3767875.00 250.13723 (15122508)
364850.00 3767875.00 228.11686 (15122508)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364875.00	3767875.00	204.21600	(15122508)	364900.00	3767875.00	182.43225	(15122508)
364925.00	3767875.00	162.51917	(15122508)	364950.00	3767875.00	143.94886	(16122716)
364450.00	3767900.00	254.67369	(14123016)	364475.00	3767900.00	299.09825	(14123016)
364500.00	3767900.00	340.36483	(14123016)	364525.00	3767900.00	388.51724	(14123016)
364550.00	3767900.00	516.87642	(15122216)	364575.00	3767900.00	694.96617	(15122216)
364600.00	3767900.00	845.57474	(15122216)	364625.00	3767900.00	825.10977	(15122216)
364650.00	3767900.00	869.12815	(12112008)	364700.00	3767900.00	729.84508	(12100508)
364725.00	3767900.00	551.02547	(12112008)	364750.00	3767900.00	447.97968	(12112008)
364775.00	3767900.00	371.01832	(12112008)	364800.00	3767900.00	310.07783	(15122508)
364825.00	3767900.00	283.90489	(15122508)	364850.00	3767900.00	252.17517	(15122508)
364875.00	3767900.00	222.38169	(15122508)	364900.00	3767900.00	197.73813	(16122716)
364925.00	3767900.00	179.15780	(16122716)	364950.00	3767900.00	159.17862	(16122716)
364450.00	3767925.00	240.66532	(14123016)	364475.00	3767925.00	294.56780	(14123016)

364500.00 3767925.00 365.05230 (14123016)
364525.00 3767925.00 457.71910 (14123016)
364550.00 3767925.00 554.92599 (14123016)
364575.00 3767925.00 685.22475 (14123016)
364600.00 3767925.00 992.12353 (15122216)
364625.00 3767925.00 1242.15716 (15122216)
364675.00 3767925.00 1922.44855 (12112808)
364700.00 3767925.00 1112.76569 (12112008)
364750.00 3767925.00 580.21148 (12112008)
364775.00 3767925.00 467.00620 (12112008)
364800.00 3767925.00 376.41415 (12112008)
364825.00 3767925.00 322.28022 (15122508)
364850.00 3767925.00 280.73961 (16122716)
364875.00 3767925.00 258.88056 (16122716)
364900.00 3767925.00 228.15948 (16122716)
364925.00 3767925.00 195.94044 (16122716)
364950.00 3767925.00 165.51123 (16122716)
364450.00 3767950.00 210.79623 (14112408)
364475.00 3767950.00 248.99585 (14123016)
364500.00 3767950.00 318.04045 (14123016)
364525.00 3767950.00 413.94530 (14123016)
364550.00 3767950.00 547.74920 (14123016)
364575.00 3767950.00 720.66837 (14123016)
364600.00 3767950.00 921.91517 (14123016)
364775.00 3767950.00 601.86501 (12112008)
364800.00 3767950.00 463.44469 (12112008)
364825.00 3767950.00 397.79825 (16122716)
364850.00 3767950.00 359.66340 (16122716)
364875.00 3767950.00 300.15687 (16122716)
364900.00 3767950.00 244.37456 (16122716)
364925.00 3767950.00 196.52611 (16122716)
364950.00 3767950.00 157.73719 (16122716)
364450.00 3767975.00 227.13174 (14112408)
364475.00 3767975.00 262.40591 (14112408)
364500.00 3767975.00 307.85013 (14112408)
364525.00 3767975.00 368.79413 (14112408)
364550.00 3767975.00 472.05713 (14100908)
364575.00 3767975.00 625.71483 (12112916)
364825.00 3767975.00 550.84284 (16122716)
364850.00 3767975.00 418.13810 (16122716)
364875.00 3767975.00 308.92902 (16122716)
364900.00 3767975.00 234.83066 (16031116)
364925.00 3767975.00 197.32538 (16031116)
364950.00 3767975.00 167.59597 (16031116)
364450.00 3768000.00 230.66768 (14112408)
364475.00 3768000.00 265.59485 (14112408)
364500.00 3768000.00 310.40542 (14112408)
364525.00 3768000.00 367.98952 (14112408)
364800.00 3768000.00 924.34630 (16122716)
364825.00 3768000.00 575.18697 (16031116)
364850.00 3768000.00 432.85780 (16031116)
364875.00 3768000.00 334.31841 (16031116)
364900.00 3768000.00 266.20478 (16031116)
364925.00 3768000.00 216.34566 (16031116)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364950.00	3768000.00	179.26310	(16031116)	364450.00	3768025.00	221.73568	(14112408)
364475.00	3768025.00	252.70814	(14112408)	364500.00	3768025.00	328.31042	(12112916)
364525.00	3768025.00	449.90726	(12112916)	364800.00	3768025.00	960.44673	(12110816)
364825.00	3768025.00	639.35930	(16031116)	364850.00	3768025.00	451.91866	(16031116)
364875.00	3768025.00	338.34131	(16031116)	364900.00	3768025.00	263.64228	(16031116)
364925.00	3768025.00	211.57390	(16031116)	364950.00	3768025.00	173.76207	(12122516)
364450.00	3768050.00	221.75658	(12112916)	364475.00	3768050.00	285.00583	(12112916)
364500.00	3768050.00	365.98172	(12112916)	364525.00	3768050.00	447.45875	(12112916)
364550.00	3768050.00	515.24386	(12112916)	364600.00	3768050.00	613.78594	(12112916)
364625.00	3768050.00	939.91576	(12112916)	364775.00	3768050.00	1870.99385	(12110816)
364800.00	3768050.00	1255.97286	(12110816)	364825.00	3768050.00	828.98181	(12110816)
364850.00	3768050.00	578.78874	(12121716)	364875.00	3768050.00	439.62567	(12121716)
364900.00	3768050.00	343.26565	(12121716)	364925.00	3768050.00	277.56069	(12121716)

364950.00 3768050.00 229.59779 (12121716)
364450.00 3768075.00 255.57844 (12112916)
364475.00 3768075.00 303.66421 (12112916)
364500.00 3768075.00 366.50512 (12112916)
364525.00 3768075.00 420.15866 (12112916)
364550.00 3768075.00 476.66893 (12112916)
364575.00 3768075.00 571.62239 (12112916)
364625.00 3768075.00 1100.12864 (12112916)
364650.00 3768075.00 1528.24113 (12112916)
364750.00 3768075.00 2075.98008 (15122116)
364775.00 3768075.00 1580.99477 (12112816)
364800.00 3768075.00 1138.57992 (12110816)
364825.00 3768075.00 864.19968 (12110816)
364850.00 3768075.00 631.82807 (12110816)
364875.00 3768075.00 466.54568 (12110816)
364900.00 3768075.00 373.34721 (12121716)
364925.00 3768075.00 310.06924 (12121716)
364950.00 3768075.00 260.87170 (12121716)
364450.00 3768100.00 269.77788 (12112916)
364475.00 3768100.00 312.95378 (12112916)
364500.00 3768100.00 358.17174 (12112916)
364525.00 3768100.00 409.60172 (12112916)
364550.00 3768100.00 481.92398 (12112916)
364575.00 3768100.00 597.79020 (12112916)
364600.00 3768100.00 742.95667 (12112916)
364650.00 3768100.00 851.03162 (12112916)
364675.00 3768100.00 757.75954 (15050608)
364725.00 3768100.00 1572.32154 (15122116)
364750.00 3768100.00 1774.19604 (15122116)
364775.00 3768100.00 1025.64456 (15122116)
364800.00 3768100.00 988.01251 (12112816)
364825.00 3768100.00 775.04528 (12112816)
364850.00 3768100.00 570.51894 (12110816)
364875.00 3768100.00 464.13906 (12110816)
364900.00 3768100.00 368.44365 (12110816)
364925.00 3768100.00 296.10016 (12110816)
364950.00 3768100.00 250.19839 (12121716)
364450.00 3768125.00 270.14499 (12112916)
364475.00 3768125.00 304.41506 (12112916)
364500.00 3768125.00 342.01319 (12112916)
364525.00 3768125.00 389.62299 (12112916)
364550.00 3768125.00 449.18309 (12112916)
364575.00 3768125.00 506.68128 (12112916)
364600.00 3768125.00 529.61787 (12112916)
364625.00 3768125.00 478.14133 (12112916)
364675.00 3768125.00 563.59131 (12022708)
364700.00 3768125.00 601.20775 (12022708)
364725.00 3768125.00 1007.23946 (15122116)
364750.00 3768125.00 1300.49775 (15122116)
364775.00 3768125.00 1017.73097 (15122116)
364800.00 3768125.00 619.97051 (12112816)
364825.00 3768125.00 645.55207 (12112816)
364850.00 3768125.00 566.80987 (12112816)
364875.00 3768125.00 447.76872 (12112816)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364900.00	3768125.00	336.06492	(12110816)	364925.00	3768125.00	287.68164	(12110816)
364950.00	3768125.00	244.36640	(12110816)	364450.00	3768150.00	257.22941	(12112916)
364475.00	3768150.00	282.29059	(12112916)	364500.00	3768150.00	307.14094	(12112916)
364525.00	3768150.00	332.84687	(12112916)	364550.00	3768150.00	351.69620	(12112916)
364575.00	3768150.00	437.78641	(14021808)	364600.00	3768150.00	314.68220	(15021708)
364625.00	3768150.00	392.81096	(12022708)	364650.00	3768150.00	441.90388	(12022708)
364700.00	3768150.00	473.83871	(12022708)	364725.00	3768150.00	671.38247	(15122116)
364750.00	3768150.00	936.73524	(15122116)	364775.00	3768150.00	888.64852	(15122116)
364800.00	3768150.00	605.70560	(15122116)	364825.00	3768150.00	424.07582	(12112816)
364850.00	3768150.00	458.89644	(12112816)	364875.00	3768150.00	424.06381	(12112816)
364900.00	3768150.00	357.20307	(12112816)	364925.00	3768150.00	285.30468	(12112816)
364950.00	3768150.00	226.51300	(12110816)	364450.00	3768175.00	231.04059	(12112916)
364475.00	3768175.00	243.99807	(12112916)	364500.00	3768175.00	252.25176	(12112916)

364525.00 3768175.00 252.78949 (12112916)
364550.00 3768175.00 261.25305 (15021708)
364575.00 3768175.00 376.40059 (14021808)
364600.00 3768175.00 388.34912 (14021808)
364625.00 3768175.00 373.28615 (12022708)
364650.00 3768175.00 464.97103 (12022708)
364675.00 3768175.00 430.36776 (12022708)
364700.00 3768175.00 385.57132 (12022708)
364725.00 3768175.00 468.02436 (15122116)
364750.00 3768175.00 682.34279 (15122116)
364775.00 3768175.00 731.45961 (15122116)
364800.00 3768175.00 588.04572 (15122116)
364825.00 3768175.00 378.42155 (15122116)
364850.00 3768175.00 309.57628 (12112816)
364875.00 3768175.00 340.71383 (12112816)
364900.00 3768175.00 328.67703 (12112816)
364925.00 3768175.00 288.24407 (12112816)
364950.00 3768175.00 244.29429 (12112816)
364450.00 3768200.00 194.63943 (15021708)
364475.00 3768200.00 216.51657 (15021708)
364500.00 3768200.00 223.99952 (15021708)
364525.00 3768200.00 242.87099 (15021708)
364550.00 3768200.00 298.13036 (15021708)
364575.00 3768200.00 330.38979 (14021808)
364600.00 3768200.00 344.38305 (14021808)
364625.00 3768200.00 360.36145 (12022708)
364650.00 3768200.00 424.85179 (12022708)
364675.00 3768200.00 363.04322 (12022708)
364700.00 3768200.00 327.71057 (12022708)
364725.00 3768200.00 337.68914 (15122116)
364750.00 3768200.00 504.80324 (15122116)
364775.00 3768200.00 587.22071 (15122116)
364800.00 3768200.00 535.20014 (15122116)
364825.00 3768200.00 394.47348 (15122116)
364850.00 3768200.00 247.41258 (15122116)
364875.00 3768200.00 236.30530 (12112816)
364900.00 3768200.00 259.86850 (12112816)
364925.00 3768200.00 258.26176 (12112816)
364950.00 3768200.00 240.97490 (12112816)
364450.00 3768225.00 189.26627 (15021708)
364475.00 3768225.00 204.76997 (15021708)
364500.00 3768225.00 206.30327 (15021708)
364525.00 3768225.00 293.98406 (14021808)
364550.00 3768225.00 305.00139 (14021808)
364575.00 3768225.00 303.45648 (14021808)
364600.00 3768225.00 284.58210 (14021808)
364625.00 3768225.00 341.45147 (12022708)
364650.00 3768225.00 385.25622 (12022708)
364675.00 3768225.00 313.64487 (12022708)
364700.00 3768225.00 280.00568 (12022708)
364725.00 3768225.00 249.63175 (15122116)
364750.00 3768225.00 380.09540 (15122116)
364775.00 3768225.00 468.51191 (15122116)
364800.00 3768225.00 467.50081 (15122116)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 , VOL17 , VOL18 , VOL19 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
364825.00	3768225.00	384.75215	(15122116)	364850.00	3768225.00	270.70388	(15122116)
364875.00	3768225.00	193.31545	(15120916)	364900.00	3768225.00	186.08344	(12112816)
364925.00	3768225.00	208.06757	(12112816)	364950.00	3768225.00	212.02951	(12112816)
364450.00	3768250.00	232.07819	(15021708)	364475.00	3768250.00	249.68330	(15021708)
364500.00	3768250.00	261.35830	(14021808)	364525.00	3768250.00	273.55524	(14021808)
364550.00	3768250.00	275.70412	(14021808)	364575.00	3768250.00	261.87799	(14021808)
364600.00	3768250.00	267.43171	(12022708)	364625.00	3768250.00	320.19398	(12022708)
364650.00	3768250.00	356.92951	(12022708)	364675.00	3768250.00	368.29238	(12022708)
364700.00	3768250.00	249.49248	(12022708)	364725.00	3768250.00	286.21153	(12022708)
364750.00	3768250.00	290.36302	(15122116)	364775.00	3768250.00	373.36190	(15122116)
364800.00	3768250.00	399.24998	(15122116)	364825.00	3768250.00	359.26645	(15122116)
364850.00	3768250.00	277.94758	(15122116)	364875.00	3768250.00	190.78142	(15122116)
364900.00	3768250.00	155.11071	(13112016)	364925.00	3768250.00	153.21967	(16011916)

364950.00 3768250.00 168.80651 (12112816)
364699.92 3767935.96 1377.29670 (12112008)
364607.94 3768036.31 671.37897 (12112008)
364622.21 3768048.74 874.16792 (12112916)
364636.47 3768061.16 1268.64274 (12112916)
364650.74 3768073.58 1564.57466 (12112916)
364665.00 3768086.01 1235.42715 (12112916)
364679.27 3768098.43 805.74692 (15050608)
364693.53 3768110.85 716.29217 (12052408)
364722.98 3768107.35 1324.06964 (15122116)
364734.19 3768091.56 2085.52524 (15122116)
364745.41 3768075.77 2393.64816 (15122116)
364756.62 3768059.98 2365.19203 (12110816)
364767.84 3768044.19 2036.01159 (12110816)
364779.05 3768028.40 1502.07225 (12110816)
364790.27 3768012.61 1095.80997 (16031116)
364801.49 3767996.82 892.74017 (16122716)
364803.83 3767974.54 639.90128 (16122716)
364780.53 3767951.89 580.42152 (12112008)
364764.89 3767940.82 598.47197 (12112008)
364749.25 3767929.74 613.61286 (12112008)
364733.61 3767918.67 633.48515 (12112008)
364717.98 3767907.59 651.01463 (12112008)
364702.34 3767896.51 677.17614 (12100508)
364686.70 3767885.44 666.69198 (16122016)
364667.26 3767883.38 746.16402 (16122016)
364642.52 3767904.38 984.61604 (16122616)
364629.69 3767918.35 1259.75580 (15122216)
364616.86 3767932.33 1206.19928 (15122216)
364604.03 3767946.30 999.83938 (15122216)
364591.20 3767960.27 850.90815 (14123016)
364578.37 3767974.25 666.53728 (12112916)
364565.55 3767988.22 654.52193 (12112916)
364595.00 3768046.17 570.58345 (12112916)
364621.08 3768021.23 953.33346 (12112008)
364706.67 3768095.77 1143.02068 (15122116)
364785.18 3767985.24 877.48414 (16122716)
364786.03 3767981.84 785.90671 (16122716)
364784.61 3767979.29 778.10449 (12112008)
364675.14 3767901.76 953.27681 (16122016)
364670.08 3767903.93 1050.34061 (16122016)
364567.45 3768015.72 743.74763 (12112916)
364567.69 3768021.74 708.64805 (12112916)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC				RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	142.14710	AT	(364756.62, 3768059.98, 74.92, 74.92, 0.00)	DC		
	2ND HIGHEST VALUE IS	117.36089	AT	(364745.41, 3768075.77, 75.34, 75.34, 0.00)	DC		
	3RD HIGHEST VALUE IS	116.37822	AT	(364767.84, 3768044.19, 74.65, 74.65, 0.00)	DC		
	4TH HIGHEST VALUE IS	116.24075	AT	(364750.00, 3768075.00, 75.45, 75.45, 0.00)	DC		
	5TH HIGHEST VALUE IS	98.59601	AT	(364775.00, 3768050.00, 75.30, 75.30, 0.00)	DC		
	6TH HIGHEST VALUE IS	85.51733	AT	(364779.05, 3768028.40, 74.62, 75.45, 0.00)	DC		
	7TH HIGHEST VALUE IS	84.30718	AT	(364775.00, 3768075.00, 76.17, 76.17, 0.00)	DC		
	8TH HIGHEST VALUE IS	68.19515	AT	(364675.00, 3767925.00, 72.05, 75.92, 0.00)	DC		
	9TH HIGHEST VALUE IS	67.64567	AT	(364734.19, 3768091.56, 75.86, 75.86, 0.00)	DC		
	10TH HIGHEST VALUE IS	58.39376	AT	(364750.00, 3768100.00, 76.14, 76.14, 0.00)	DC		

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	2393.64816	ON 15122116: AT (364745.41, 3768075.77, 75.34, 75.34, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   799 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   455 Calm Hours Identified

 A Total of   344 Missing Hours Identified (0.78 Percent)

    ******** FATAL ERROR MESSAGES ********
               *** NONE ***

    ********   WARNING MESSAGES   ********
 ME W186   2249   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
 ME W187   2249   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    ****
    *** AERMOD Finishes Successfully ***
    ****

HARP2 - HRACalc (dated 19044) 2/25/2020 9:07:21 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_CancerRisk.csv
Cancer risk total by receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_NCChronicRisk.csv
Chronic risk total by receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_NCAcuteRisk.csv
Acute risk total by receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_NCAcuteRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v19044 2/25/2020 9:07:21 AM - Cancer Risk - Input File: C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_HRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		363650	3767000	3.43E-08	1YrCancerR	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		363750	3767000	3.65E-08	1YrCancerR	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		363850	3767000	3.89E-08	1YrCancerR	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		363950	3767000	4.15E-08	1YrCancerR	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		364050	3767000	4.43E-08	1YrCancerR	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		364150	3767000	4.69E-08	1YrCancerR	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		364250	3767000	4.92E-08	1YrCancerR	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		364350	3767000	5.12E-08	1YrCancerR	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		364450	3767000	5.25E-08	1YrCancerR	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		364550	3767000	5.34E-08	1YrCancerR	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		364650	3767000	5.37E-08	1YrCancerR	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		364750	3767000	5.27E-08	1YrCancerR	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		364850	3767000	5.05E-08	1YrCancerR	5.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		364950	3767000	4.73E-08	1YrCancerR	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		365050	3767000	4.34E-08	1YrCancerR	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		365150	3767000	3.96E-08	1YrCancerR	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		365250	3767000	3.60E-08	1YrCancerR	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		365350	3767000	3.26E-08	1YrCancerR	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		365450	3767000	2.96E-08	1YrCancerR	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		365550	3767000	2.69E-08	1YrCancerR	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		365650	3767000	2.45E-08	1YrCancerR	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		363650	3767100	3.80E-08	1YrCancerR	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		363750	3767100	4.10E-08	1YrCancerR	4.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		363850	3767100	4.40E-08	1YrCancerR	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		363950	3767100	4.75E-08	1YrCancerR	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		364050	3767100	5.13E-08	1YrCancerR	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		364150	3767100	5.51E-08	1YrCancerR	5.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		364250	3767100	5.87E-08	1YrCancerR	5.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		364350	3767100	6.17E-08	1YrCancerR	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		364450	3767100	6.40E-08	1YrCancerR	6.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		364550	3767100	6.54E-08	1YrCancerR	6.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		364650	3767100	6.57E-08	1YrCancerR	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		364750	3767100	6.45E-08	1YrCancerR	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		364850	3767100	6.13E-08	1YrCancerR	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		364950	3767100	5.65E-08	1YrCancerR	5.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		365050	3767100	5.13E-08	1YrCancerR	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		365150	3767100	4.59E-08	1YrCancerR	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		365250	3767100	4.11E-08	1YrCancerR	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		365350	3767100	3.68E-08	1YrCancerR	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		365450	3767100	3.30E-08	1YrCancerR	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		365550	3767100	2.96E-08	1YrCancerR	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		365650	3767100	2.67E-08	1YrCancerR	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		363650	3767200	4.20E-08	1YrCancerR	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		363750	3767200	4.59E-08	1YrCancerR	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		363850	3767200	5.03E-08	1YrCancerR	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		363950	3767200	5.50E-08	1YrCancerR	5.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		364050	3767200	6.00E-08	1YrCancerR	6.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		364150	3767200	6.57E-08	1YrCancerR	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		364250	3767200	7.10E-08	1YrCancerR	7.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		364350	3767200	7.60E-08	1YrCancerR	7.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		364450	3767200	7.99E-08	1YrCancerR	7.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		364550	3767200	8.22E-08	1YrCancerR	8.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		364650	3767200	8.30E-08	1YrCancerR	8.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		364750	3767200	8.08E-08	1YrCancerR	8.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		364850	3767200	7.61E-08	1YrCancerR	7.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		364950	3767200	6.91E-08	1YrCancerR	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		365050	3767200	6.14E-08	1YrCancerR	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		365150	3767200	5.40E-08	1YrCancerR	5.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		365250	3767200	4.74E-08	1YrCancerR	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		365350	3767200	4.18E-08	1YrCancerR	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		365450	3767200	3.69E-08	1YrCancerR	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		365550	3767200	3.27E-08	1YrCancerR	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		365650	3767200	2.93E-08	1YrCancerR	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		363650	3767300	4.62E-08	1YrCancerR	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		363750	3767300	5.14E-08	1YrCancerR	5.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		363850	3767300	5.74E-08	1YrCancerR	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		363950	3767300	6.41E-08	1YrCancerR	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		364050	3767300	7.16E-08	1YrCancerR	7.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		364150	3767300	7.96E-08	1YrCancerR	7.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		364250	3767300	8.81E-08	1YrCancerR	8.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		364350	3767300	9.59E-08	1YrCancerR	9.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		364450	3767300	1.03E-07	1YrCancerR	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		364550	3767300	1.07E-07	1YrCancerR	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		364650	3767300	1.08E-07	1YrCancerR	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		364750	3767300	1.05E-07	1YrCancerR	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		364850	3767300	9.74E-08	1YrCancerR	9.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		364950	3767300	8.64E-08	1YrCancerR	8.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		365050	3767300	7.49E-08	1YrCancerR	7.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		365150	3767300	6.42E-08	1YrCancerR	6.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		365250	3767300	5.52E-08	1YrCancerR	5.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		365350	3767300	4.77E-08	1YrCancerR	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		365450	3767300	4.15E-08	1YrCancerR	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		365550	3767300	3.63E-08	1YrCancerR	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		365650	3767300	3.20E-08	1YrCancerR	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		363650	3767400	5.05E-08	1YrCancerR	5.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		363750	3767400	5.72E-08	1YrCancerR	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		363850	3767400	6.52E-08	1YrCancerR	6.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		363950	3767400	7.48E-08	1YrCancerR	7.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

89	ALL	364050	3767400	8.57E-08	1YrCancerF	8.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	364150	3767400	9.83E-08	1YrCancerF	9.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	364250	3767400	1.12E-07	1YrCancerF	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	364350	3767400	1.25E-07	1YrCancerF	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	364450	3767400	1.37E-07	1YrCancerF	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	364550	3767400	1.46E-07	1YrCancerF	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	364650	3767400	1.49E-07	1YrCancerF	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	364750	3767400	1.44E-07	1YrCancerF	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	364850	3767400	1.30E-07	1YrCancerF	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	364950	3767400	1.11E-07	1YrCancerF	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	365050	3767400	9.32E-08	1YrCancerF	9.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	365150	3767400	7.76E-08	1YrCancerF	7.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	365250	3767400	6.49E-08	1YrCancerF	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	365350	3767400	5.47E-08	1YrCancerF	5.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	365450	3767400	4.67E-08	1YrCancerF	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	365550	3767400	4.02E-08	1YrCancerF	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	365650	3767400	3.50E-08	1YrCancerF	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	363650	3767500	5.46E-08	1YrCancerF	5.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	363750	3767500	6.30E-08	1YrCancerF	6.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	363850	3767500	7.34E-08	1YrCancerF	7.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	363950	3767500	8.63E-08	1YrCancerF	8.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	364050	3767500	1.03E-07	1YrCancerF	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	364150	3767500	1.22E-07	1YrCancerF	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	364250	3767500	1.44E-07	1YrCancerF	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	364350	3767500	1.68E-07	1YrCancerF	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	364450	3767500	1.92E-07	1YrCancerF	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	364550	3767500	2.11E-07	1YrCancerF	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	364650	3767500	2.17E-07	1YrCancerF	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	364750	3767500	2.07E-07	1YrCancerF	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	364850	3767500	1.80E-07	1YrCancerF	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	364950	3767500	1.48E-07	1YrCancerF	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	365050	3767500	1.18E-07	1YrCancerF	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	365150	3767500	9.49E-08	1YrCancerF	9.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	365250	3767500	7.69E-08	1YrCancerF	7.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	365350	3767500	6.31E-08	1YrCancerF	6.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	365450	3767500	5.26E-08	1YrCancerF	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	365550	3767500	4.45E-08	1YrCancerF	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	365650	3767500	3.81E-08	1YrCancerF	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	363650	3767600	5.80E-08	1YrCancerF	5.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	363750	3767600	6.80E-08	1YrCancerF	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	363850	3767600	8.10E-08	1YrCancerF	8.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	363950	3767600	9.79E-08	1YrCancerF	9.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	364050	3767600	1.20E-07	1YrCancerF	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	364150	3767600	1.50E-07	1YrCancerF	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	364250	3767600	1.87E-07	1YrCancerF	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	364350	3767600	2.33E-07	1YrCancerF	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	364450	3767600	2.86E-07	1YrCancerF	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	364550	3767600	3.30E-07	1YrCancerF	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	364650	3767600	3.50E-07	1YrCancerF	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	364750	3767600	3.26E-07	1YrCancerF	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	364850	3767600	2.67E-07	1YrCancerF	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	364950	3767600	2.05E-07	1YrCancerF	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	365050	3767600	1.54E-07	1YrCancerF	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	365150	3767600	1.18E-07	1YrCancerF	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	365250	3767600	9.12E-08	1YrCancerF	9.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	365350	3767600	7.24E-08	1YrCancerF	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	365450	3767600	5.90E-08	1YrCancerF	5.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	365550	3767600	4.91E-08	1YrCancerF	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	365650	3767600	4.14E-08	1YrCancerF	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	363650	3767700	6.01E-08	1YrCancerF	6.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	363750	3767700	7.15E-08	1YrCancerF	7.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	363850	3767700	8.94E-08	1YrCancerF	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	363950	3767700	1.07E-07	1YrCancerF	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	364050	3767700	1.37E-07	1YrCancerF	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	364150	3767700	1.80E-07	1YrCancerF	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	364250	3767700	2.41E-07	1YrCancerF	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	364350	3767700	3.29E-07	1YrCancerF	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	364450	3767700	4.51E-07	1YrCancerF	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	364550	3767700	5.83E-07	1YrCancerF	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	364650	3767700	6.58E-07	1YrCancerF	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	364750	3767700	5.89E-07	1YrCancerF	5.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	364850	3767700	4.32E-07	1YrCancerF	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	364950	3767700	2.95E-07	1YrCancerF	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	365050	3767700	2.04E-07	1YrCancerF	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	365150	3767700	1.46E-07	1YrCancerF	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	365250	3767700	1.08E-07	1YrCancerF	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	365350	3767700	8.30E-08	1YrCancerF	8.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	365450	3767700	6.60E-08	1YrCancerF	6.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	365550	3767700	5.39E-08	1YrCancerF	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	365650	3767700	4.49E-08	1YrCancerF	4.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	363650	3767800	6.51E-08	1YrCancerF	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	363750	3767800	8.16E-08	1YrCancerF	8.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	363850	3767800	1.02E-07	1YrCancerF	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	363950	3767800	1.30E-07	1YrCancerF	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	364050	3767800	1.58E-07	1YrCancerF	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	364150	3767800	2.05E-07	1YrCancerF	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	364250	3767800	2.96E-07	1YrCancerF	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	364350	3767800	4.53E-07	1YrCancerF	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	364450	3767800	7.40E-07	1YrCancerF	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	364550	3767800	1.23E-06	1YrCancerF	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

179	ALL	364650	3767800	1.67E-06	1YrCancerF	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	364750	3767800	1.31E-06	1YrCancerF	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	364850	3767800	7.66E-07	1YrCancerF	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	364950	3767800	4.41E-07	1YrCancerF	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	365050	3767800	2.71E-07	1YrCancerF	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	365150	3767800	1.80E-07	1YrCancerF	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	365250	3767800	1.28E-07	1YrCancerF	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	365350	3767800	9.51E-08	1YrCancerF	9.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	365450	3767800	7.41E-08	1YrCancerF	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	365550	3767800	5.96E-08	1YrCancerF	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	365650	3767800	4.91E-08	1YrCancerF	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	363650	3767900	6.11E-08	1YrCancerF	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	363750	3767900	7.05E-08	1YrCancerF	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	363850	3767900	8.83E-08	1YrCancerF	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	363950	3767900	1.21E-07	1YrCancerF	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	364050	3767900	1.64E-07	1YrCancerF	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	364150	3767900	2.21E-07	1YrCancerF	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	364250	3767900	3.33E-07	1YrCancerF	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	364350	3767900	5.59E-07	1YrCancerF	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	364450	3767900	1.11E-06	1YrCancerF	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	364550	3767900	2.99E-06	1YrCancerF	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	364650	3767900	1.11E-05	1YrCancerF	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	364750	3767900	4.19E-06	1YrCancerF	4.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	364850	3767900	1.57E-06	1YrCancerF	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	364950	3767900	6.92E-07	1YrCancerF	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	365050	3767900	3.75E-07	1YrCancerF	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	365150	3767900	2.32E-07	1YrCancerF	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	365250	3767900	1.57E-07	1YrCancerF	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	365350	3767900	1.14E-07	1YrCancerF	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	365450	3767900	8.68E-08	1YrCancerF	8.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	365550	3767900	6.83E-08	1YrCancerF	6.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	365650	3767900	5.54E-08	1YrCancerF	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	363650	3768000	5.01E-08	1YrCancerF	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	363750	3768000	5.81E-08	1YrCancerF	5.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	363850	3768000	7.56E-08	1YrCancerF	7.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	363950	3768000	1.07E-07	1YrCancerF	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	364050	3768000	1.48E-07	1YrCancerF	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	364150	3768000	2.19E-07	1YrCancerF	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	364250	3768000	3.26E-07	1YrCancerF	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	364350	3768000	5.70E-07	1YrCancerF	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	364450	3768000	1.19E-06	1YrCancerF	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	364850	3768000	4.55E-06	1YrCancerF	4.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	364950	3768000	1.45E-06	1YrCancerF	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	365050	3768000	6.64E-07	1YrCancerF	6.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	365150	3768000	3.68E-07	1YrCancerF	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	365250	3768000	2.30E-07	1YrCancerF	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	365350	3768000	1.56E-07	1YrCancerF	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	365450	3768000	1.13E-07	1YrCancerF	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	365550	3768000	8.56E-08	1YrCancerF	8.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	365650	3768000	6.72E-08	1YrCancerF	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	363650	3768100	4.49E-08	1YrCancerF	4.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	363750	3768100	5.41E-08	1YrCancerF	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	363850	3768100	7.56E-08	1YrCancerF	7.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	363950	3768100	1.08E-07	1YrCancerF	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	364050	3768100	1.40E-07	1YrCancerF	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	364150	3768100	1.91E-07	1YrCancerF	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	364250	3768100	2.83E-07	1YrCancerF	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	364350	3768100	4.68E-07	1YrCancerF	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	364450	3768100	8.95E-07	1YrCancerF	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	364550	3768100	1.98E-06	1YrCancerF	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	364650	3768100	6.01E-06	1YrCancerF	6.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	364750	3768100	2.25E-05	1YrCancerF	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	364850	3768100	9.80E-06	1YrCancerF	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	364950	3768100	3.22E-06	1YrCancerF	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	365050	3768100	1.32E-06	1YrCancerF	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	365150	3768100	6.81E-07	1YrCancerF	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	365250	3768100	3.91E-07	1YrCancerF	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	365350	3768100	2.46E-07	1YrCancerF	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	365450	3768100	1.66E-07	1YrCancerF	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	365550	3768100	1.19E-07	1YrCancerF	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	365650	3768100	8.90E-08	1YrCancerF	8.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	363650	3768200	4.81E-08	1YrCancerF	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	363750	3768200	6.07E-08	1YrCancerF	6.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	363850	3768200	7.20E-08	1YrCancerF	7.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	363950	3768200	8.92E-08	1YrCancerF	8.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	364050	3768200	1.16E-07	1YrCancerF	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	364150	3768200	1.55E-07	1YrCancerF	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	364250	3768200	2.24E-07	1YrCancerF	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	364350	3768200	3.46E-07	1YrCancerF	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	364450	3768200	5.55E-07	1YrCancerF	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	364550	3768200	8.76E-07	1YrCancerF	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	364650	3768200	1.50E-06	1YrCancerF	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	364750	3768200	3.15E-06	1YrCancerF	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	364850	3768200	4.50E-06	1YrCancerF	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	364950	3768200	3.18E-06	1YrCancerF	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	365050	3768200	1.77E-06	1YrCancerF	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	365150	3768200	9.84E-07	1YrCancerF	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	365250	3768200	5.98E-07	1YrCancerF	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	365350	3768200	3.72E-07	1YrCancerF	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	365450	3768200	2.47E-07	1YrCancerF	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

269	ALL	365550	3768200	1.71E-07	1YrCancerF	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	365650	3768200	1.24E-07	1YrCancerF	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	363650	3768300	4.62E-08	1YrCancerF	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	363750	3768300	5.35E-08	1YrCancerF	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	363850	3768300	6.34E-08	1YrCancerF	6.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	363950	3768300	7.68E-08	1YrCancerF	7.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	364050	3768300	9.64E-08	1YrCancerF	9.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	364150	3768300	1.25E-07	1YrCancerF	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	364250	3768300	1.70E-07	1YrCancerF	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	364350	3768300	2.36E-07	1YrCancerF	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	364450	3768300	3.23E-07	1YrCancerF	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	364550	3768300	4.30E-07	1YrCancerF	4.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	364650	3768300	6.55E-07	1YrCancerF	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	364750	3768300	9.95E-07	1YrCancerF	9.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	364850	3768300	1.59E-06	1YrCancerF	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	364950	3768300	1.77E-06	1YrCancerF	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	365050	3768300	1.45E-06	1YrCancerF	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	365150	3768300	1.02E-06	1YrCancerF	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	365250	3768300	7.13E-07	1YrCancerF	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	365350	3768300	4.74E-07	1YrCancerF	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	365450	3768300	3.21E-07	1YrCancerF	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	365550	3768300	2.29E-07	1YrCancerF	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	365650	3768300	1.66E-07	1YrCancerF	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	363650	3768400	4.12E-08	1YrCancerF	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	363750	3768400	4.71E-08	1YrCancerF	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	363850	3768400	5.46E-08	1YrCancerF	5.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	363950	3768400	6.49E-08	1YrCancerF	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	364050	3768400	7.93E-08	1YrCancerF	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	364150	3768400	1.00E-07	1YrCancerF	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	364250	3768400	1.31E-07	1YrCancerF	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	364350	3768400	1.65E-07	1YrCancerF	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	364450	3768400	2.02E-07	1YrCancerF	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	364550	3768400	2.48E-07	1YrCancerF	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	364650	3768400	3.42E-07	1YrCancerF	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	364750	3768400	4.60E-07	1YrCancerF	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	364850	3768400	6.93E-07	1YrCancerF	6.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	364950	3768400	8.82E-07	1YrCancerF	8.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	365050	3768400	9.13E-07	1YrCancerF	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	365150	3768400	8.11E-07	1YrCancerF	8.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	365250	3768400	6.58E-07	1YrCancerF	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	365350	3768400	4.92E-07	1YrCancerF	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	365450	3768400	3.60E-07	1YrCancerF	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	365550	3768400	2.63E-07	1YrCancerF	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	365650	3768400	2.05E-07	1YrCancerF	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	363650	3768500	3.61E-08	1YrCancerF	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	363750	3768500	4.07E-08	1YrCancerF	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	363850	3768500	4.69E-08	1YrCancerF	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	363950	3768500	5.40E-08	1YrCancerF	5.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	364050	3768500	6.55E-08	1YrCancerF	6.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	364150	3768500	8.18E-08	1YrCancerF	8.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	364250	3768500	9.91E-08	1YrCancerF	9.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	364350	3768500	1.13E-07	1YrCancerF	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	364450	3768500	1.32E-07	1YrCancerF	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	364550	3768500	1.62E-07	1YrCancerF	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	364650	3768500	2.06E-07	1YrCancerF	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	364750	3768500	2.64E-07	1YrCancerF	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	364850	3768500	3.57E-07	1YrCancerF	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	364950	3768500	4.74E-07	1YrCancerF	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	365050	3768500	5.43E-07	1YrCancerF	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	365150	3768500	5.60E-07	1YrCancerF	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	365250	3768500	5.18E-07	1YrCancerF	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	365350	3768500	4.39E-07	1YrCancerF	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	365450	3768500	3.57E-07	1YrCancerF	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	365550	3768500	2.76E-07	1YrCancerF	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	365650	3768500	2.14E-07	1YrCancerF	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	363650	3768600	3.14E-08	1YrCancerF	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	363750	3768600	3.53E-08	1YrCancerF	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	363850	3768600	3.92E-08	1YrCancerF	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	363950	3768600	4.66E-08	1YrCancerF	4.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	364050	3768600	5.49E-08	1YrCancerF	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	364150	3768600	6.53E-08	1YrCancerF	6.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	364250	3768600	7.15E-08	1YrCancerF	7.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	364350	3768600	8.12E-08	1YrCancerF	8.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	364450	3768600	9.16E-08	1YrCancerF	9.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	364550	3768600	1.09E-07	1YrCancerF	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	364650	3768600	1.37E-07	1YrCancerF	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	364750	3768600	1.65E-07	1YrCancerF	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	364850	3768600	2.12E-07	1YrCancerF	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	364950	3768600	2.78E-07	1YrCancerF	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	365050	3768600	3.27E-07	1YrCancerF	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	365150	3768600	3.71E-07	1YrCancerF	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	365250	3768600	3.73E-07	1YrCancerF	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	365350	3768600	3.50E-07	1YrCancerF	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	365450	3768600	3.11E-07	1YrCancerF	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	365550	3768600	2.65E-07	1YrCancerF	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	365650	3768600	2.18E-07	1YrCancerF	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	363650	3768700	2.75E-08	1YrCancerF	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	363750	3768700	3.08E-08	1YrCancerF	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	363850	3768700	3.47E-08	1YrCancerF	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	363950	3768700	4.01E-08	1YrCancerF	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

359	ALL	364050	3768700	4.61E-08	1YrCancerF	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	364150	3768700	5.23E-08	1YrCancerF	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	364250	3768700	5.56E-08	1YrCancerF	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	364350	3768700	6.05E-08	1YrCancerF	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	364450	3768700	6.81E-08	1YrCancerF	6.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	364550	3768700	8.02E-08	1YrCancerF	8.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	364650	3768700	9.68E-08	1YrCancerF	9.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	364750	3768700	1.11E-07	1YrCancerF	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	364850	3768700	1.35E-07	1YrCancerF	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	364950	3768700	1.75E-07	1YrCancerF	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	365050	3768700	2.10E-07	1YrCancerF	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	365150	3768700	2.45E-07	1YrCancerF	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	365250	3768700	2.64E-07	1YrCancerF	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	365350	3768700	2.64E-07	1YrCancerF	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	365450	3768700	2.53E-07	1YrCancerF	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	365550	3768700	2.30E-07	1YrCancerF	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	365650	3768700	2.04E-07	1YrCancerF	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	363650	3768800	2.43E-08	1YrCancerF	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	363750	3768800	2.72E-08	1YrCancerF	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	363850	3768800	3.09E-08	1YrCancerF	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	363950	3768800	3.43E-08	1YrCancerF	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	364050	3768800	3.74E-08	1YrCancerF	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	364150	3768800	4.24E-08	1YrCancerF	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	364250	3768800	4.39E-08	1YrCancerF	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	364350	3768800	4.72E-08	1YrCancerF	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	364450	3768800	5.19E-08	1YrCancerF	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	364550	3768800	5.97E-08	1YrCancerF	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	364650	3768800	7.26E-08	1YrCancerF	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	364750	3768800	8.01E-08	1YrCancerF	8.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	364850	3768800	9.50E-08	1YrCancerF	9.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	364950	3768800	1.19E-07	1YrCancerF	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	365050	3768800	1.42E-07	1YrCancerF	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	365150	3768800	1.68E-07	1YrCancerF	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	365250	3768800	1.85E-07	1YrCancerF	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	365350	3768800	1.94E-07	1YrCancerF	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	365450	3768800	1.97E-07	1YrCancerF	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	365550	3768800	1.91E-07	1YrCancerF	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	365650	3768800	1.78E-07	1YrCancerF	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	363650	3768900	2.20E-08	1YrCancerF	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	363750	3768900	2.48E-08	1YrCancerF	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	363850	3768900	2.70E-08	1YrCancerF	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	363950	3768900	2.90E-08	1YrCancerF	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	364050	3768900	3.10E-08	1YrCancerF	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	364150	3768900	3.31E-08	1YrCancerF	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	364250	3768900	3.54E-08	1YrCancerF	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	364350	3768900	3.78E-08	1YrCancerF	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	364450	3768900	4.16E-08	1YrCancerF	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	364550	3768900	4.63E-08	1YrCancerF	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	364650	3768900	5.46E-08	1YrCancerF	5.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	364750	3768900	6.35E-08	1YrCancerF	6.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	364850	3768900	6.99E-08	1YrCancerF	6.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	364950	3768900	8.57E-08	1YrCancerF	8.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	365050	3768900	1.01E-07	1YrCancerF	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	365150	3768900	1.20E-07	1YrCancerF	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	365250	3768900	1.34E-07	1YrCancerF	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	365350	3768900	1.44E-07	1YrCancerF	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	365450	3768900	1.52E-07	1YrCancerF	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	365550	3768900	1.53E-07	1YrCancerF	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	365650	3768900	1.50E-07	1YrCancerF	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	363650	3769000	2.03E-08	1YrCancerF	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	363750	3769000	2.22E-08	1YrCancerF	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	363850	3769000	2.36E-08	1YrCancerF	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	363950	3769000	2.45E-08	1YrCancerF	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	364050	3769000	2.60E-08	1YrCancerF	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	364150	3769000	2.79E-08	1YrCancerF	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	364250	3769000	2.94E-08	1YrCancerF	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	364350	3769000	3.17E-08	1YrCancerF	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	364450	3769000	3.44E-08	1YrCancerF	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	364550	3769000	3.83E-08	1YrCancerF	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	364650	3769000	4.27E-08	1YrCancerF	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	364750	3769000	4.81E-08	1YrCancerF	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	364850	3769000	5.45E-08	1YrCancerF	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	364950	3769000	6.45E-08	1YrCancerF	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	365050	3769000	7.58E-08	1YrCancerF	7.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	365150	3769000	8.79E-08	1YrCancerF	8.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	365250	3769000	9.91E-08	1YrCancerF	9.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	365350	3769000	1.09E-07	1YrCancerF	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	365450	3769000	1.17E-07	1YrCancerF	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	365550	3769000	1.21E-07	1YrCancerF	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	365650	3769000	1.24E-07	1YrCancerF	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	364450	3767750	5.78E-07	1YrCancerF	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	364475	3767750	6.36E-07	1YrCancerF	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	364500	3767750	6.98E-07	1YrCancerF	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	364525	3767750	7.62E-07	1YrCancerF	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	364550	3767750	8.26E-07	1YrCancerF	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	364575	3767750	8.83E-07	1YrCancerF	8.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	364600	3767750	9.36E-07	1YrCancerF	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	364625	3767750	9.75E-07	1YrCancerF	9.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	364650	3767750	9.91E-07	1YrCancerF	9.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	364675	3767750	9.87E-07	1YrCancerF	9.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

449	ALL	364700	3767750	9.59E-07	1YrCancerF	9.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	364725	3767750	9.10E-07	1YrCancerF	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	364750	3767750	8.47E-07	1YrCancerF	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	364775	3767750	7.78E-07	1YrCancerF	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	364800	3767750	7.05E-07	1YrCancerF	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	364825	3767750	6.34E-07	1YrCancerF	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	364850	3767750	5.68E-07	1YrCancerF	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	364875	3767750	5.06E-07	1YrCancerF	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	364900	3767750	4.51E-07	1YrCancerF	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	364925	3767750	4.03E-07	1YrCancerF	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	364950	3767750	3.59E-07	1YrCancerF	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	364450	3767775	6.55E-07	1YrCancerF	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	364475	3767775	7.32E-07	1YrCancerF	7.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	364500	3767775	8.17E-07	1YrCancerF	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	364525	3767775	9.09E-07	1YrCancerF	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	364550	3767775	1.00E-06	1YrCancerF	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	364575	3767775	1.09E-06	1YrCancerF	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	364600	3767775	1.18E-06	1YrCancerF	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	364625	3767775	1.23E-06	1YrCancerF	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	364650	3767775	1.27E-06	1YrCancerF	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	364675	3767775	1.26E-06	1YrCancerF	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	364700	3767775	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	364725	3767775	1.14E-06	1YrCancerF	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	364750	3767775	1.04E-06	1YrCancerF	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	364775	3767775	9.40E-07	1YrCancerF	9.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	364800	3767775	8.39E-07	1YrCancerF	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	364825	3767775	7.44E-07	1YrCancerF	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	364850	3767775	6.58E-07	1YrCancerF	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	364875	3767775	5.79E-07	1YrCancerF	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	364900	3767775	5.10E-07	1YrCancerF	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	364925	3767775	4.50E-07	1YrCancerF	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	364950	3767775	3.97E-07	1YrCancerF	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	364450	3767800	7.40E-07	1YrCancerF	7.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	364475	3767800	8.43E-07	1YrCancerF	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	364500	3767800	9.60E-07	1YrCancerF	9.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	364525	3767800	1.09E-06	1YrCancerF	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	364550	3767800	1.23E-06	1YrCancerF	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	364575	3767800	1.38E-06	1YrCancerF	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	364600	3767800	1.51E-06	1YrCancerF	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	364625	3767800	1.62E-06	1YrCancerF	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	364650	3767800	1.67E-06	1YrCancerF	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	364675	3767800	1.66E-06	1YrCancerF	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	364700	3767800	1.58E-06	1YrCancerF	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	364725	3767800	1.46E-06	1YrCancerF	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	364750	3767800	1.31E-06	1YrCancerF	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	364775	3767800	1.16E-06	1YrCancerF	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	364800	3767800	1.01E-06	1YrCancerF	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	364825	3767800	8.83E-07	1YrCancerF	8.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	364850	3767800	7.66E-07	1YrCancerF	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	364875	3767800	6.65E-07	1YrCancerF	6.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	364900	3767800	5.78E-07	1YrCancerF	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	364925	3767800	5.03E-07	1YrCancerF	5.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	364950	3767800	4.41E-07	1YrCancerF	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	364450	3767825	8.33E-07	1YrCancerF	8.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	364475	3767825	9.68E-07	1YrCancerF	9.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	364500	3767825	1.13E-06	1YrCancerF	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	364525	3767825	1.32E-06	1YrCancerF	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	364550	3767825	1.53E-06	1YrCancerF	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	364575	3767825	1.77E-06	1YrCancerF	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	364600	3767825	2.01E-06	1YrCancerF	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	364625	3767825	2.20E-06	1YrCancerF	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	364650	3767825	2.31E-06	1YrCancerF	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	364675	3767825	2.29E-06	1YrCancerF	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	364700	3767825	2.14E-06	1YrCancerF	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	364725	3767825	1.92E-06	1YrCancerF	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	364750	3767825	1.68E-06	1YrCancerF	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	364775	3767825	1.45E-06	1YrCancerF	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	364800	3767825	1.24E-06	1YrCancerF	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	364825	3767825	1.06E-06	1YrCancerF	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	364850	3767825	9.02E-07	1YrCancerF	9.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	364875	3767825	7.69E-07	1YrCancerF	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	364900	3767825	6.57E-07	1YrCancerF	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	364925	3767825	5.66E-07	1YrCancerF	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	364950	3767825	4.89E-07	1YrCancerF	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	364450	3767850	9.30E-07	1YrCancerF	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	364475	3767850	1.10E-06	1YrCancerF	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	364500	3767850	1.32E-06	1YrCancerF	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	364525	3767850	1.59E-06	1YrCancerF	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	364550	3767850	1.93E-06	1YrCancerF	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	364575	3767850	2.33E-06	1YrCancerF	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	364600	3767850	2.77E-06	1YrCancerF	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	364625	3767850	3.18E-06	1YrCancerF	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	364650	3767850	3.42E-06	1YrCancerF	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	364675	3767850	3.38E-06	1YrCancerF	3.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	364700	3767850	3.04E-06	1YrCancerF	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	364725	3767850	2.63E-06	1YrCancerF	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	364750	3767850	2.21E-06	1YrCancerF	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	364775	3767850	1.85E-06	1YrCancerF	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	364800	3767850	1.54E-06	1YrCancerF	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	364825	3767850	1.29E-06	1YrCancerF	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

539	ALL	364850	3767850	1.07E-06	1YrCancerF	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	364875	3767850	8.93E-07	1YrCancerF	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	364900	3767850	7.52E-07	1YrCancerF	7.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	364925	3767850	6.38E-07	1YrCancerF	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	364950	3767850	5.44E-07	1YrCancerF	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	364450	3767875	1.02E-06	1YrCancerF	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	364475	3767875	1.24E-06	1YrCancerF	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	364500	3767875	1.52E-06	1YrCancerF	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	364525	3767875	1.91E-06	1YrCancerF	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	364550	3767875	2.42E-06	1YrCancerF	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	364575	3767875	3.12E-06	1YrCancerF	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	364600	3767875	3.99E-06	1YrCancerF	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	364625	3767875	4.96E-06	1YrCancerF	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	364650	3767875	5.63E-06	1YrCancerF	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	364675	3767875	5.46E-06	1YrCancerF	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	364700	3767875	4.65E-06	1YrCancerF	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	364725	3767875	3.74E-06	1YrCancerF	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	364750	3767875	3.00E-06	1YrCancerF	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	364775	3767875	2.41E-06	1YrCancerF	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	364800	3767875	1.95E-06	1YrCancerF	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	364825	3767875	1.58E-06	1YrCancerF	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	364850	3767875	1.28E-06	1YrCancerF	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	364875	3767875	1.05E-06	1YrCancerF	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	364900	3767875	8.66E-07	1YrCancerF	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	364925	3767875	7.24E-07	1YrCancerF	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	364950	3767875	6.11E-07	1YrCancerF	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	364450	3767900	1.11E-06	1YrCancerF	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	364475	3767900	1.36E-06	1YrCancerF	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	364500	3767900	1.73E-06	1YrCancerF	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	364525	3767900	2.24E-06	1YrCancerF	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	364550	3767900	2.99E-06	1YrCancerF	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	364575	3767900	4.14E-06	1YrCancerF	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	364600	3767900	5.94E-06	1YrCancerF	5.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	364625	3767900	8.63E-06	1YrCancerF	8.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	364650	3767900	1.11E-05	1YrCancerF	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	364700	3767900	7.71E-06	1YrCancerF	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	364725	3767900	5.56E-06	1YrCancerF	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	364750	3767900	4.19E-06	1YrCancerF	4.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	364775	3767900	3.26E-06	1YrCancerF	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	364800	3767900	2.54E-06	1YrCancerF	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	364825	3767900	1.99E-06	1YrCancerF	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	364850	3767900	1.57E-06	1YrCancerF	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	364875	3767900	1.25E-06	1YrCancerF	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	364900	3767900	1.01E-06	1YrCancerF	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	364925	3767900	8.31E-07	1YrCancerF	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	364950	3767900	6.92E-07	1YrCancerF	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	364450	3767925	1.17E-06	1YrCancerF	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	364475	3767925	1.47E-06	1YrCancerF	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	364500	3767925	1.89E-06	1YrCancerF	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	364525	3767925	2.51E-06	1YrCancerF	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	364550	3767925	3.56E-06	1YrCancerF	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	364575	3767925	5.33E-06	1YrCancerF	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	364600	3767925	8.71E-06	1YrCancerF	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	364625	3767925	1.57E-05	1YrCancerF	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	364675	3767925	2.63E-05	1YrCancerF	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	364700	3767925	1.43E-05	1YrCancerF	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	364750	3767925	6.30E-06	1YrCancerF	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	364775	3767925	4.72E-06	1YrCancerF	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	364800	3767925	3.53E-06	1YrCancerF	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	364825	3767925	2.62E-06	1YrCancerF	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	364850	3767925	1.98E-06	1YrCancerF	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	364875	3767925	1.53E-06	1YrCancerF	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	364900	3767925	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	364925	3767925	9.76E-07	1YrCancerF	9.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	364950	3767925	8.00E-07	1YrCancerF	8.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	364450	3767950	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	364475	3767950	1.53E-06	1YrCancerF	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	364500	3767950	1.99E-06	1YrCancerF	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	364525	3767950	2.70E-06	1YrCancerF	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	364550	3767950	3.89E-06	1YrCancerF	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	364575	3767950	6.26E-06	1YrCancerF	6.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	364600	3767950	1.14E-05	1YrCancerF	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	364775	3767950	7.45E-06	1YrCancerF	7.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	364800	3767950	5.15E-06	1YrCancerF	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	364825	3767950	3.57E-06	1YrCancerF	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	364850	3767950	2.58E-06	1YrCancerF	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	364875	3767950	1.92E-06	1YrCancerF	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	364900	3767950	1.48E-06	1YrCancerF	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	364925	3767950	1.17E-06	1YrCancerF	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	364950	3767950	9.47E-07	1YrCancerF	9.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	364450	3767975	1.22E-06	1YrCancerF	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	364475	3767975	1.54E-06	1YrCancerF	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	364500	3767975	2.03E-06	1YrCancerF	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	364525	3767975	2.76E-06	1YrCancerF	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	364550	3767975	3.99E-06	1YrCancerF	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	364575	3767975	6.54E-06	1YrCancerF	6.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	364825	3767975	4.89E-06	1YrCancerF	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	364850	3767975	3.39E-06	1YrCancerF	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	364875	3767975	2.45E-06	1YrCancerF	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	364900	3767975	1.86E-06	1YrCancerF	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

629	ALL	364925	3767975	1.45E-06	1YrCancerF	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	364950	3767975	1.16E-06	1YrCancerF	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	364450	3768000	1.19E-06	1YrCancerF	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	364475	3768000	1.50E-06	1YrCancerF	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	364500	3768000	1.96E-06	1YrCancerF	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	364525	3768000	2.67E-06	1YrCancerF	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	364800	3768000	1.11E-05	1YrCancerF	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	364825	3768000	6.78E-06	1YrCancerF	6.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	364850	3768000	4.55E-06	1YrCancerF	4.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	364875	3768000	3.23E-06	1YrCancerF	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	364900	3768000	2.40E-06	1YrCancerF	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	364925	3768000	1.84E-06	1YrCancerF	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	364950	3768000	1.45E-06	1YrCancerF	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	364450	3768025	1.14E-06	1YrCancerF	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	364475	3768025	1.43E-06	1YrCancerF	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	364500	3768025	1.84E-06	1YrCancerF	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	364525	3768025	2.45E-06	1YrCancerF	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	364800	3768025	1.79E-05	1YrCancerF	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	364825	3768025	1.01E-05	1YrCancerF	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	364850	3768025	6.37E-06	1YrCancerF	6.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	364875	3768025	4.38E-06	1YrCancerF	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	364900	3768025	3.17E-06	1YrCancerF	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	364925	3768025	2.39E-06	1YrCancerF	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	364950	3768025	1.84E-06	1YrCancerF	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	364450	3768050	1.08E-06	1YrCancerF	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	364475	3768050	1.34E-06	1YrCancerF	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	364500	3768050	1.68E-06	1YrCancerF	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	364525	3768050	2.17E-06	1YrCancerF	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	364550	3768050	2.91E-06	1YrCancerF	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	364600	3768050	5.69E-06	1YrCancerF	5.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	364625	3768050	8.83E-06	1YrCancerF	8.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	364775	3768050	3.80E-05	1YrCancerF	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	364800	3768050	2.19E-05	1YrCancerF	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	364825	3768050	1.31E-05	1YrCancerF	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	364850	3768050	8.38E-06	1YrCancerF	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	364875	3768050	5.71E-06	1YrCancerF	5.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	364900	3768050	4.09E-06	1YrCancerF	4.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	364925	3768050	3.04E-06	1YrCancerF	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	364950	3768050	2.32E-06	1YrCancerF	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	364450	3768075	9.99E-07	1YrCancerF	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	364475	3768075	1.23E-06	1YrCancerF	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	364500	3768075	1.49E-06	1YrCancerF	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	364525	3768075	1.87E-06	1YrCancerF	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	364550	3768075	2.41E-06	1YrCancerF	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	364575	3768075	3.19E-06	1YrCancerF	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	364625	3768075	6.20E-06	1YrCancerF	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	364650	3768075	9.48E-06	1YrCancerF	9.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	364750	3768075	4.48E-05	1YrCancerF	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	364775	3768075	3.25E-05	1YrCancerF	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	364800	3768075	2.15E-05	1YrCancerF	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	364825	3768075	1.44E-05	1YrCancerF	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	364850	3768075	9.71E-06	1YrCancerF	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	364875	3768075	6.79E-06	1YrCancerF	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	364900	3768075	4.92E-06	1YrCancerF	4.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	364925	3768075	3.67E-06	1YrCancerF	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	364950	3768075	2.81E-06	1YrCancerF	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	364450	3768100	8.95E-07	1YrCancerF	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	364475	3768100	1.08E-06	1YrCancerF	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	364500	3768100	1.31E-06	1YrCancerF	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	364525	3768100	1.58E-06	1YrCancerF	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	364550	3768100	1.98E-06	1YrCancerF	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	364575	3768100	2.43E-06	1YrCancerF	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	364600	3768100	3.25E-06	1YrCancerF	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	364650	3768100	6.01E-06	1YrCancerF	6.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	364675	3768100	8.35E-06	1YrCancerF	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	364725	3768100	1.82E-05	1YrCancerF	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	364750	3768100	2.25E-05	1YrCancerF	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	364775	3768100	2.16E-05	1YrCancerF	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	364800	3768100	1.77E-05	1YrCancerF	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	364825	3768100	1.33E-05	1YrCancerF	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	364850	3768100	9.80E-06	1YrCancerF	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	364875	3768100	7.27E-06	1YrCancerF	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	364900	3768100	5.43E-06	1YrCancerF	5.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	364925	3768100	4.14E-06	1YrCancerF	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	364950	3768100	3.22E-06	1YrCancerF	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	364450	3768125	7.92E-07	1YrCancerF	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	364475	3768125	9.48E-07	1YrCancerF	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	364500	3768125	1.13E-06	1YrCancerF	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	364525	3768125	1.31E-06	1YrCancerF	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	364550	3768125	1.49E-06	1YrCancerF	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	364575	3768125	1.82E-06	1YrCancerF	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	364600	3768125	2.41E-06	1YrCancerF	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	364625	3768125	3.11E-06	1YrCancerF	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	364675	3768125	5.23E-06	1YrCancerF	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	364700	3768125	7.01E-06	1YrCancerF	7.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	364725	3768125	9.48E-06	1YrCancerF	9.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	364750	3768125	1.21E-05	1YrCancerF	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	364775	3768125	1.34E-05	1YrCancerF	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	364800	3768125	1.27E-05	1YrCancerF	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	364825	3768125	1.09E-05	1YrCancerF	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719	ALL	364850	3768125	8.88E-06	1YrCancerF	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	364875	3768125	7.04E-06	1YrCancerF	7.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	364900	3768125	5.49E-06	1YrCancerF	5.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	364925	3768125	4.35E-06	1YrCancerF	4.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	364950	3768125	3.47E-06	1YrCancerF	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	364450	3768150	7.10E-07	1YrCancerF	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	364475	3768150	8.18E-07	1YrCancerF	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	364500	3768150	9.68E-07	1YrCancerF	9.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	364525	3768150	1.12E-06	1YrCancerF	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	364550	3768150	1.29E-06	1YrCancerF	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	364575	3768150	1.46E-06	1YrCancerF	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	364600	3768150	1.86E-06	1YrCancerF	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	364625	3768150	2.28E-06	1YrCancerF	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	364650	3768150	2.83E-06	1YrCancerF	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	364700	3768150	4.41E-06	1YrCancerF	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	364725	3768150	5.65E-06	1YrCancerF	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	364750	3768150	7.18E-06	1YrCancerF	7.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	364775	3768150	8.33E-06	1YrCancerF	8.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	364800	3768150	8.72E-06	1YrCancerF	8.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	364825	3768150	8.29E-06	1YrCancerF	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	364850	3768150	7.38E-06	1YrCancerF	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	364875	3768150	6.29E-06	1YrCancerF	6.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	364900	3768150	5.23E-06	1YrCancerF	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	364925	3768150	4.31E-06	1YrCancerF	4.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	364950	3768150	3.54E-06	1YrCancerF	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	364450	3768175	6.28E-07	1YrCancerF	6.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	364475	3768175	7.17E-07	1YrCancerF	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	364500	3768175	8.26E-07	1YrCancerF	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	364525	3768175	9.47E-07	1YrCancerF	9.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	364550	3768175	1.09E-06	1YrCancerF	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	364575	3768175	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	364600	3768175	1.41E-06	1YrCancerF	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	364625	3768175	1.69E-06	1YrCancerF	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	364650	3768175	1.96E-06	1YrCancerF	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	364675	3768175	2.43E-06	1YrCancerF	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	364700	3768175	3.03E-06	1YrCancerF	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	364725	3768175	3.73E-06	1YrCancerF	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	364750	3768175	4.59E-06	1YrCancerF	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	364775	3768175	5.43E-06	1YrCancerF	5.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	364800	3768175	5.99E-06	1YrCancerF	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	364825	3768175	6.10E-06	1YrCancerF	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	364850	3768175	5.83E-06	1YrCancerF	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	364875	3768175	5.30E-06	1YrCancerF	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	364900	3768175	4.67E-06	1YrCancerF	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	364925	3768175	4.02E-06	1YrCancerF	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	364950	3768175	3.43E-06	1YrCancerF	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	364450	3768200	5.55E-07	1YrCancerF	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	364475	3768200	6.20E-07	1YrCancerF	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	364500	3768200	7.06E-07	1YrCancerF	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	364525	3768200	7.86E-07	1YrCancerF	7.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	364550	3768200	8.76E-07	1YrCancerF	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	364575	3768200	9.90E-07	1YrCancerF	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	364600	3768200	1.12E-06	1YrCancerF	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	364625	3768200	1.28E-06	1YrCancerF	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	364650	3768200	1.50E-06	1YrCancerF	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	364675	3768200	1.83E-06	1YrCancerF	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	364700	3768200	2.19E-06	1YrCancerF	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	364725	3768200	2.63E-06	1YrCancerF	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	364750	3768200	3.15E-06	1YrCancerF	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	364775	3768200	3.72E-06	1YrCancerF	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	364800	3768200	4.18E-06	1YrCancerF	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	364825	3768200	4.47E-06	1YrCancerF	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	364850	3768200	4.50E-06	1YrCancerF	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	364875	3768200	4.31E-06	1YrCancerF	4.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	364900	3768200	4.00E-06	1YrCancerF	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	364925	3768200	3.60E-06	1YrCancerF	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	364950	3768200	3.18E-06	1YrCancerF	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	364450	3768225	4.89E-07	1YrCancerF	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	364475	3768225	5.39E-07	1YrCancerF	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	364500	3768225	6.04E-07	1YrCancerF	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	364525	3768225	6.44E-07	1YrCancerF	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	364550	3768225	7.18E-07	1YrCancerF	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	364575	3768225	8.03E-07	1YrCancerF	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	364600	3768225	9.05E-07	1YrCancerF	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	364625	3768225	1.03E-06	1YrCancerF	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	364650	3768225	1.18E-06	1YrCancerF	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	364675	3768225	1.42E-06	1YrCancerF	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	364700	3768225	1.65E-06	1YrCancerF	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	364725	3768225	1.94E-06	1YrCancerF	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	364750	3768225	2.28E-06	1YrCancerF	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	364775	3768225	2.65E-06	1YrCancerF	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	364800	3768225	3.01E-06	1YrCancerF	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	364825	3768225	3.30E-06	1YrCancerF	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	364850	3768225	3.44E-06	1YrCancerF	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	364875	3768225	3.44E-06	1YrCancerF	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	364900	3768225	3.32E-06	1YrCancerF	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	364925	3768225	3.10E-06	1YrCancerF	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	364950	3768225	2.84E-06	1YrCancerF	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	364450	3768250	4.15E-07	1YrCancerF	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	364475	3768250	4.54E-07	1YrCancerF	4.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

809	ALL	364500	3768250	4.98E-07	1YrCancerR	4.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	364525	3768250	5.45E-07	1YrCancerR	5.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	364550	3768250	5.96E-07	1YrCancerR	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	364575	3768250	6.60E-07	1YrCancerR	6.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	364600	3768250	7.38E-07	1YrCancerR	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	364625	3768250	8.39E-07	1YrCancerR	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	364650	3768250	9.47E-07	1YrCancerR	9.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	364675	3768250	1.07E-06	1YrCancerR	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	364700	3768250	1.28E-06	1YrCancerR	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	364725	3768250	1.43E-06	1YrCancerR	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	364750	3768250	1.66E-06	1YrCancerR	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	364775	3768250	1.94E-06	1YrCancerR	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	364800	3768250	2.20E-06	1YrCancerR	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	364825	3768250	2.44E-06	1YrCancerR	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	364850	3768250	2.63E-06	1YrCancerR	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	364875	3768250	2.74E-06	1YrCancerR	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	364900	3768250	2.72E-06	1YrCancerR	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	364925	3768250	2.63E-06	1YrCancerR	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	364950	3768250	2.48E-06	1YrCancerR	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	364699.9	3767936	2.02E-05	1YrCancerR	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	364607.9	3768036	7.55E-06	1YrCancerR	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	364622.2	3768049	8.49E-06	1YrCancerR	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	364636.5	3768061	9.37E-06	1YrCancerR	9.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	364650.7	3768074	9.90E-06	1YrCancerR	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	364665	3768086	9.72E-06	1YrCancerR	9.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	364679.3	3768098	9.19E-06	1YrCancerR	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	364693.5	3768111	8.69E-06	1YrCancerR	8.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	364723	3768107	1.44E-05	1YrCancerR	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	364734.2	3768092	2.61E-05	1YrCancerR	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	364745.4	3768076	4.53E-05	1YrCancerR	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	364756.6	3768060	5.48E-05	1YrCancerR	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	364767.8	3768044	4.49E-05	1YrCancerR	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	364779.1	3768028	3.30E-05	1YrCancerR	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	364790.3	3768013	1.85E-05	1YrCancerR	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	364801.5	3767997	1.02E-05	1YrCancerR	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	364803.8	3767975	6.98E-06	1YrCancerR	6.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	364780.5	3767952	7.12E-06	1YrCancerR	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	364764.9	3767941	7.14E-06	1YrCancerR	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	364749.3	3767930	6.96E-06	1YrCancerR	6.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	364733.6	3767919	6.86E-06	1YrCancerR	6.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	364718	3767908	6.96E-06	1YrCancerR	6.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	364702.3	3767897	6.94E-06	1YrCancerR	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	364686.7	3767885	6.43E-06	1YrCancerR	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	364667.3	3767883	6.86E-06	1YrCancerR	6.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	364642.5	3767904	1.21E-05	1YrCancerR	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	364629.7	3767918	1.49E-05	1YrCancerR	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	364616.9	3767932	1.47E-05	1YrCancerR	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	364604	3767946	1.23E-05	1YrCancerR	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	364591.2	3767960	9.46E-06	1YrCancerR	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	364578.4	3767974	7.05E-06	1YrCancerR	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	364565.6	3767988	5.23E-06	1YrCancerR	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	364595	3768046	5.49E-06	1YrCancerR	5.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	364621.1	3768021	1.21E-05	1YrCancerR	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	364706.7	3768096	1.57E-05	1YrCancerR	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	364785.2	3767985	1.21E-05	1YrCancerR	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	364786	3767982	1.12E-05	1YrCancerR	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	364784.6	3767979	1.10E-05	1YrCancerR	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	364675.1	3767902	1.11E-05	1YrCancerR	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	364670.1	3767904	1.24E-05	1YrCancerR	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	364567.5	3768016	4.65E-06	1YrCancerR	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	364567.7	3768022	4.47E-06	1YrCancerR	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/25/2020 9:07:21 AM - Chronic Risk - Input File: C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_UnMit\hra\ArcadiaWTP_Con_Unmit_HRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		363650	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
2	ALL		363750	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
3	ALL		363850	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
4	ALL		363950	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
5	ALL		364050	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
6	ALL		364150	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
7	ALL		364250	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
8	ALL		364350	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
9	ALL		364450	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05
10	ALL		364550	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
11	ALL		364650	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
12	ALL		364750	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
13	ALL		364850	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05
14	ALL		364950	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
15	ALL		365050	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05
16	ALL		365150	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
17	ALL		365250	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
18	ALL		365350	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
19	ALL		365450	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
20	ALL		365550	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
21	ALL		365650	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
22	ALL		363650	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
23	ALL		363750	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
24	ALL		363850	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
25	ALL		363950	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05
26	ALL		364050	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
27	ALL		364150	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
28	ALL		364250	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
29	ALL		364350	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05
30	ALL		364450	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05
31	ALL		364550	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05
32	ALL		364650	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
33	ALL		364750	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
34	ALL		364850	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-05
35	ALL		364950	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-05
36	ALL		365050	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
37	ALL		365150	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
38	ALL		365250	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
39	ALL		365350	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
40	ALL		365450	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
41	ALL		365550	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
42	ALL		365650	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
43	ALL		363650	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
44	ALL		363750	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
45	ALL		363850	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
46	ALL		363950	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05
47	ALL		364050	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05
48	ALL		364150	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
49	ALL		364250	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05
50	ALL		364350	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
51	ALL		364450	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
52	ALL		364550	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
53	ALL		364650	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-05
54	ALL		364750	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
55	ALL		364850	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
56	ALL		364950	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
57	ALL		365050	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05
58	ALL		365150	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
59	ALL		365250	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
60	ALL		365350	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
61	ALL		365450	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
62	ALL		365550	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
63	ALL		365650	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
64	ALL		363650	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
65	ALL		363750	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
66	ALL		363850	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05
67	ALL		363950	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
68	ALL		364050	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
69	ALL		364150	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
70	ALL		364250	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
71	ALL		364350	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
72	ALL		364450	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
73	ALL		364550	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
74	ALL		364650	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
75	ALL		364750	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
76	ALL		364850	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
77	ALL		364950	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05
78	ALL		365050	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
79	ALL		365150	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
80	ALL		365250	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05
81	ALL		365350	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05
82	ALL		365450	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
83	ALL		365550	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
84	ALL		365650	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
85	ALL		363650	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05
86	ALL		363750	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05
87	ALL		363850	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05
88	ALL		363950	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05
89	ALL		364050	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-05
90	ALL		364150	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
91	ALL		364250	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
92	ALL		364350	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
93	ALL		364450	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
94	ALL		364550	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
95	ALL		364650	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
96	ALL		364750	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
97	ALL		364850	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04

100	ALL	365150	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
101	ALL	365250	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
102	ALL	365350	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05
103	ALL	365450	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
104	ALL	365550	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
105	ALL	365650	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
106	ALL	363650	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05
107	ALL	363750	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05
108	ALL	363850	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05
109	ALL	363950	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05
110	ALL	364050	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
111	ALL	364150	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
112	ALL	364250	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
113	ALL	364350	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
114	ALL	364450	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
115	ALL	364550	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
116	ALL	364650	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
117	ALL	364750	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
118	ALL	364850	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
119	ALL	364950	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
120	ALL	365050	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
121	ALL	365150	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
122	ALL	365250	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
123	ALL	365350	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
124	ALL	365450	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05
125	ALL	365550	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
126	ALL	365650	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
127	ALL	363650	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05
128	ALL	363750	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
129	ALL	363850	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05
130	ALL	363950	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
131	ALL	364050	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
132	ALL	364150	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
133	ALL	364250	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
134	ALL	364350	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
135	ALL	364450	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
136	ALL	364550	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
137	ALL	364650	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
138	ALL	364750	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
139	ALL	364850	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
140	ALL	364950	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
141	ALL	365050	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
142	ALL	365150	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
143	ALL	365250	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
144	ALL	365350	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05
145	ALL	365450	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05
146	ALL	365550	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
147	ALL	365650	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
148	ALL	363650	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
149	ALL	363750	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
150	ALL	363850	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
151	ALL	363950	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
152	ALL	364050	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
153	ALL	364150	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
154	ALL	364250	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
155	ALL	364350	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
156	ALL	364450	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04
157	ALL	364550	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
158	ALL	364650	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
159	ALL	364750	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
160	ALL	364850	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
161	ALL	364950	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
162	ALL	365050	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
163	ALL	365150	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
164	ALL	365250	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
165	ALL	365350	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-05
166	ALL	365450	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05
167	ALL	365550	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-05
168	ALL	365650	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
169	ALL	363650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05
170	ALL	363750	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05
171	ALL	363850	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
172	ALL	363950	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
173	ALL	364050	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
174	ALL	364150	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
175	ALL	364250	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
176	ALL	364350	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04
177	ALL	364450	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
178	ALL	364550	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
179	ALL	364650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
180	ALL	364750	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
181	ALL	364850	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
182	ALL	364950	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04
183	ALL	365050	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
184	ALL	365150	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
185	ALL	365250	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
186	ALL	365350	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
187	ALL	365450	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
188	ALL	365550	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
189	ALL	365650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
190	ALL	363650	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05
191	ALL	363750	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
192	ALL	363850	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
193	ALL	363950	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
194	ALL	364050	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
195	ALL	364150	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
196	ALL	364250	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
197	ALL	364350	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
198	ALL	364450	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

201	ALL	364750	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03
202	ALL	364850	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
203	ALL	364950	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
204	ALL	365050	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
205	ALL	365150	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
206	ALL	365250	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
207	ALL	365350	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
208	ALL	365450	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
209	ALL	365550	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05
210	ALL	365650	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
211	ALL	363650	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
212	ALL	363750	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
213	ALL	363850	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05
214	ALL	363950	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
215	ALL	364050	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
216	ALL	364150	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
217	ALL	364250	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
218	ALL	364350	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
219	ALL	364450	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
220	ALL	364850	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-03
221	ALL	364950	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
222	ALL	365050	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04
223	ALL	365150	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
224	ALL	365250	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
225	ALL	365350	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
226	ALL	365450	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
227	ALL	365550	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05
228	ALL	365650	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
229	ALL	363650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
230	ALL	363750	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
231	ALL	363850	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05
232	ALL	363950	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
233	ALL	364050	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
234	ALL	364150	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
235	ALL	364250	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
236	ALL	364350	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
237	ALL	364450	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
238	ALL	364550	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
239	ALL	364650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03
240	ALL	364750	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-02
241	ALL	364850	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
242	ALL	364950	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-03
243	ALL	365050	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
244	ALL	365150	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
245	ALL	365250	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04
246	ALL	365350	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
247	ALL	365450	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
248	ALL	365550	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
249	ALL	365650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
250	ALL	363650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
251	ALL	363750	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05
252	ALL	363850	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05
253	ALL	363950	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
254	ALL	364050	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
255	ALL	364150	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
256	ALL	364250	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
257	ALL	364350	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
258	ALL	364450	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
259	ALL	364550	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04
260	ALL	364650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
261	ALL	364750	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-03
262	ALL	364850	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03
263	ALL	364950	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
264	ALL	365050	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
265	ALL	365150	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
266	ALL	365250	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
267	ALL	365350	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
268	ALL	365450	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
269	ALL	365550	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
270	ALL	365650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
271	ALL	363650	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
272	ALL	363750	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
273	ALL	363850	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
274	ALL	363950	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05
275	ALL	364050	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
276	ALL	364150	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
277	ALL	364250	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
278	ALL	364350	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
279	ALL	364450	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
280	ALL	364550	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
281	ALL	364650	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04
282	ALL	364750	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
283	ALL	364850	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
284	ALL	364950	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
285	ALL	365050	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
286	ALL	365150	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
287	ALL	365250	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04
288	ALL	365350	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04
289	ALL	365450	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
290	ALL	365550	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
291	ALL	365650	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
292	ALL	363650	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
293	ALL	363750	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
294	ALL	363850	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05
295	ALL	363950	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
296	ALL	364050	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
297	ALL	364150	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
298	ALL	364250	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
299	ALL	364350	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

302	ALL	364650	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
303	ALL	364750	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
304	ALL	364850	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
305	ALL	364950	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-04
306	ALL	365050	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
307	ALL	365150	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-04
308	ALL	365250	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
309	ALL	365350	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-04
310	ALL	365450	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
311	ALL	365550	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
312	ALL	365650	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
313	ALL	363650	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
314	ALL	363750	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
315	ALL	363850	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
316	ALL	363950	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
317	ALL	364050	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
318	ALL	364150	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
319	ALL	364250	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
320	ALL	364350	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
321	ALL	364450	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
322	ALL	364550	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
323	ALL	364650	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
324	ALL	364750	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
325	ALL	364850	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
326	ALL	364950	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04
327	ALL	365050	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
328	ALL	365150	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04
329	ALL	365250	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-04
330	ALL	365350	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04
331	ALL	365450	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
332	ALL	365550	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
333	ALL	365650	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
334	ALL	363650	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
335	ALL	363750	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
336	ALL	363850	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
337	ALL	363950	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
338	ALL	364050	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05
339	ALL	364150	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
340	ALL	364250	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
341	ALL	364350	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
342	ALL	364450	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
343	ALL	364550	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
344	ALL	364650	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
345	ALL	364750	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
346	ALL	364850	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
347	ALL	364950	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
348	ALL	365050	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
349	ALL	365150	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
350	ALL	365250	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
351	ALL	365350	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
352	ALL	365450	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
353	ALL	365550	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
354	ALL	365650	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
355	ALL	363650	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
356	ALL	363750	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
357	ALL	363850	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
358	ALL	363950	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
359	ALL	364050	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
360	ALL	364150	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
361	ALL	364250	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05
362	ALL	364350	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
363	ALL	364450	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
364	ALL	364550	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
365	ALL	364650	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
366	ALL	364750	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
367	ALL	364850	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
368	ALL	364950	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
369	ALL	365050	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
370	ALL	365150	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
371	ALL	365250	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
372	ALL	365350	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
373	ALL	365450	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
374	ALL	365550	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
375	ALL	365650	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
376	ALL	363650	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
377	ALL	363750	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
378	ALL	363850	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
379	ALL	363950	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
380	ALL	364050	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
381	ALL	364150	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
382	ALL	364250	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
383	ALL	364350	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
384	ALL	364450	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
385	ALL	364550	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
386	ALL	364650	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
387	ALL	364750	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05
388	ALL	364850	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
389	ALL	364950	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
390	ALL	365050	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
391	ALL	365150	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
392	ALL	365250	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
393	ALL	365350	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
394	ALL	365450	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
395	ALL	365550	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
396	ALL	365650	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
397	ALL	363650	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
398	ALL	363750	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
399	ALL	363850	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
400	ALL	363950	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

403	ALL	364250	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
404	ALL	364350	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
405	ALL	364450	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
406	ALL	364550	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
407	ALL	364650	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05
408	ALL	364750	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
409	ALL	364850	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05
410	ALL	364950	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-05
411	ALL	365050	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
412	ALL	365150	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
413	ALL	365250	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
414	ALL	365350	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
415	ALL	365450	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
416	ALL	365550	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
417	ALL	365650	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
418	ALL	363650	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
419	ALL	363750	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
420	ALL	363850	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
421	ALL	363950	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
422	ALL	364050	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
423	ALL	364150	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
424	ALL	364250	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
425	ALL	364350	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
426	ALL	364450	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
427	ALL	364550	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
428	ALL	364650	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
429	ALL	364750	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
430	ALL	364850	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
431	ALL	364950	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
432	ALL	365050	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
433	ALL	365150	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05
434	ALL	365250	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
435	ALL	365350	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
436	ALL	365450	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
437	ALL	365550	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
438	ALL	365650	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
439	ALL	364450	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
440	ALL	364475	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04
441	ALL	364500	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
442	ALL	364525	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04
443	ALL	364550	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04
444	ALL	364575	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
445	ALL	364600	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
446	ALL	364625	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
447	ALL	364650	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
448	ALL	364675	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
449	ALL	364700	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
450	ALL	364725	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
451	ALL	364750	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04
452	ALL	364775	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04
453	ALL	364800	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-04
454	ALL	364825	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04
455	ALL	364850	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04
456	ALL	364875	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04
457	ALL	364900	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
458	ALL	364925	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
459	ALL	364950	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
460	ALL	364450	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04
461	ALL	364475	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04
462	ALL	364500	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
463	ALL	364525	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
464	ALL	364550	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
465	ALL	364575	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
466	ALL	364600	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
467	ALL	364625	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
468	ALL	364650	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
469	ALL	364675	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
470	ALL	364700	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
471	ALL	364725	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
472	ALL	364750	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
473	ALL	364775	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
474	ALL	364800	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
475	ALL	364825	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-04
476	ALL	364850	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-04
477	ALL	364875	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-04
478	ALL	364900	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
479	ALL	364925	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
480	ALL	364950	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-04
481	ALL	364450	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
482	ALL	364475	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
483	ALL	364500	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
484	ALL	364525	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
485	ALL	364550	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
486	ALL	364575	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
487	ALL	364600	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
488	ALL	364625	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
489	ALL	364650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
490	ALL	364675	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
491	ALL	364700	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
492	ALL	364725	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
493	ALL	364750	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
494	ALL	364775	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
495	ALL	364800	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
496	ALL	364825	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
497	ALL	364850	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
498	ALL	364875	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
499	ALL	364900	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
500	ALL	364925	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
501	ALL	364950	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

504	ALL	364500	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
505	ALL	364525	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
506	ALL	364550	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-03
507	ALL	364575	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
508	ALL	364600	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
509	ALL	364625	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
510	ALL	364650	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
511	ALL	364675	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
512	ALL	364700	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
513	ALL	364725	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
514	ALL	364750	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
515	ALL	364775	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
516	ALL	364800	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
517	ALL	364825	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
518	ALL	364850	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
519	ALL	364875	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-04
520	ALL	364900	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04
521	ALL	364925	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04
522	ALL	364950	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
523	ALL	364450	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
524	ALL	364475	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
525	ALL	364500	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
526	ALL	364525	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
527	ALL	364550	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
528	ALL	364575	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
529	ALL	364600	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03
530	ALL	364625	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03
531	ALL	364650	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03
532	ALL	364675	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-03
533	ALL	364700	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
534	ALL	364725	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
535	ALL	364750	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
536	ALL	364775	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
537	ALL	364800	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
538	ALL	364825	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
539	ALL	364850	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
540	ALL	364875	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
541	ALL	364900	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
542	ALL	364925	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
543	ALL	364950	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-04
544	ALL	364450	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
545	ALL	364475	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
546	ALL	364500	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
547	ALL	364525	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
548	ALL	364550	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
549	ALL	364575	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03
550	ALL	364600	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-03
551	ALL	364625	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03
552	ALL	364650	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-03
553	ALL	364675	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-03
554	ALL	364700	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-03
555	ALL	364725	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03
556	ALL	364750	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03
557	ALL	364775	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
558	ALL	364800	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
559	ALL	364825	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
560	ALL	364850	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
561	ALL	364875	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
562	ALL	364900	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-04
563	ALL	364925	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04
564	ALL	364950	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
565	ALL	364450	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
566	ALL	364475	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
567	ALL	364500	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
568	ALL	364525	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03
569	ALL	364550	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03
570	ALL	364575	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-03
571	ALL	364600	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03
572	ALL	364625	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-03
573	ALL	364650	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02
574	ALL	364700	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-03
575	ALL	364725	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-03
576	ALL	364750	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-03
577	ALL	364775	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
578	ALL	364800	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03
579	ALL	364825	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
580	ALL	364850	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
581	ALL	364875	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
582	ALL	364900	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
583	ALL	364925	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
584	ALL	364950	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
585	ALL	364450	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
586	ALL	364475	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
587	ALL	364500	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
588	ALL	364525	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
589	ALL	364550	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-03
590	ALL	364575	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-03
591	ALL	364600	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-03
592	ALL	364625	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02
593	ALL	364675	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-02
594	ALL	364700	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-02
595	ALL	364750	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-03
596	ALL	364775	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03
597	ALL	364800	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-03
598	ALL	364825	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
599	ALL	364850	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
600	ALL	364875	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
601	ALL	364900	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
602	ALL	364925	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

605	ALL	364475	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
606	ALL	364500	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
607	ALL	364525	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03
608	ALL	364550	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03
609	ALL	364575	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-03
610	ALL	364600	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02
611	ALL	364775	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-03
612	ALL	364800	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-03
613	ALL	364825	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-03
614	ALL	364850	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03
615	ALL	364875	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
616	ALL	364900	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
617	ALL	364925	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
618	ALL	364950	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
619	ALL	364450	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
620	ALL	364475	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
621	ALL	364500	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
622	ALL	364525	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
623	ALL	364550	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-03
624	ALL	364575	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-03
625	ALL	364825	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03
626	ALL	364850	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-03
627	ALL	364875	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
628	ALL	364900	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
629	ALL	364925	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
630	ALL	364950	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
631	ALL	364450	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
632	ALL	364475	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
633	ALL	364500	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
634	ALL	364525	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03
635	ALL	364800	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02
636	ALL	364825	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-03
637	ALL	364850	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-03
638	ALL	364875	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03
639	ALL	364900	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03
640	ALL	364925	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
641	ALL	364950	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
642	ALL	364450	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
643	ALL	364475	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
644	ALL	364500	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
645	ALL	364525	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03
646	ALL	364800	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02
647	ALL	364825	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02
648	ALL	364850	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-03
649	ALL	364875	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03
650	ALL	364900	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
651	ALL	364925	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03
652	ALL	364950	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
653	ALL	364450	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
654	ALL	364475	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
655	ALL	364500	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
656	ALL	364525	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
657	ALL	364550	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
658	ALL	364600	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-03
659	ALL	364625	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-03
660	ALL	364775	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-02
661	ALL	364800	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-02
662	ALL	364825	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02
663	ALL	364850	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-03
664	ALL	364875	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03
665	ALL	364900	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03
666	ALL	364925	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
667	ALL	364950	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
668	ALL	364450	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
669	ALL	364475	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
670	ALL	364500	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
671	ALL	364525	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
672	ALL	364550	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
673	ALL	364575	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-03
674	ALL	364625	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-03
675	ALL	364650	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
676	ALL	364750	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-02
677	ALL	364775	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02
678	ALL	364800	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-02
679	ALL	364825	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-02
680	ALL	364850	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02
681	ALL	364875	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-03
682	ALL	364900	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03
683	ALL	364925	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-03
684	ALL	364950	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03
685	ALL	364450	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
686	ALL	364475	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
687	ALL	364500	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
688	ALL	364525	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
689	ALL	364550	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
690	ALL	364575	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
691	ALL	364600	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
692	ALL	364650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-03
693	ALL	364675	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-03
694	ALL	364725	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-02
695	ALL	364750	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-02
696	ALL	364775	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-02
697	ALL	364800	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-02
698	ALL	364825	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02
699	ALL	364850	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
700	ALL	364875	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-03
701	ALL	364900	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03
702	ALL	364925	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-03
703	ALL	364950	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

706	ALL	364500	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
707	ALL	364525	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
708	ALL	364550	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
709	ALL	364575	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
710	ALL	364600	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
711	ALL	364625	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-03
712	ALL	364675	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
713	ALL	364700	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-03
714	ALL	364725	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-02
715	ALL	364750	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
716	ALL	364775	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02
717	ALL	364800	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02
718	ALL	364825	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
719	ALL	364850	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-03
720	ALL	364875	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-03
721	ALL	364900	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-03
722	ALL	364925	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-03
723	ALL	364950	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03
724	ALL	364450	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
725	ALL	364475	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04
726	ALL	364500	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
727	ALL	364525	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
728	ALL	364550	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
729	ALL	364575	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
730	ALL	364600	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
731	ALL	364625	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
732	ALL	364650	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03
733	ALL	364700	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-03
734	ALL	364725	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-03
735	ALL	364750	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-03
736	ALL	364775	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-03
737	ALL	364800	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-03
738	ALL	364825	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-03
739	ALL	364850	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-03
740	ALL	364875	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-03
741	ALL	364900	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
742	ALL	364925	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03
743	ALL	364950	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03
744	ALL	364450	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
745	ALL	364475	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04
746	ALL	364500	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04
747	ALL	364525	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
748	ALL	364550	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
749	ALL	364575	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
750	ALL	364600	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
751	ALL	364625	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
752	ALL	364650	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
753	ALL	364675	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
754	ALL	364700	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03
755	ALL	364725	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03
756	ALL	364750	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-03
757	ALL	364775	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03
758	ALL	364800	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-03
759	ALL	364825	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03
760	ALL	364850	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-03
761	ALL	364875	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-03
762	ALL	364900	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03
763	ALL	364925	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03
764	ALL	364950	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03
765	ALL	364450	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
766	ALL	364475	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
767	ALL	364500	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04
768	ALL	364525	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-04
769	ALL	364550	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-04
770	ALL	364575	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
771	ALL	364600	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
772	ALL	364625	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
773	ALL	364650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
774	ALL	364675	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
775	ALL	364700	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
776	ALL	364725	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03
777	ALL	364750	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-03
778	ALL	364775	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-03
779	ALL	364800	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03
780	ALL	364825	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03
781	ALL	364850	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03
782	ALL	364875	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03
783	ALL	364900	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-03
784	ALL	364925	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03
785	ALL	364950	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
786	ALL	364450	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
787	ALL	364475	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
788	ALL	364500	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04
789	ALL	364525	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04
790	ALL	364550	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04
791	ALL	364575	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-04
792	ALL	364600	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
793	ALL	364625	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
794	ALL	364650	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
795	ALL	364675	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
796	ALL	364700	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
797	ALL	364725	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03
798	ALL	364750	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
799	ALL	364775	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
800	ALL	364800	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03
801	ALL	364825	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03
802	ALL	364850	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03
803	ALL	364875	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03
804	ALL	364900	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

807	ALL	364450	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
808	ALL	364475	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04
809	ALL	364500	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04
810	ALL	364525	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04
811	ALL	364550	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04
812	ALL	364575	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04
813	ALL	364600	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
814	ALL	364625	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
815	ALL	364650	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
816	ALL	364675	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
817	ALL	364700	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
818	ALL	364725	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
819	ALL	364750	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
820	ALL	364775	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03
821	ALL	364800	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
822	ALL	364825	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
823	ALL	364850	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03
824	ALL	364875	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03
825	ALL	364900	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-03
826	ALL	364925	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
827	ALL	364950	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03
828	ALL	364699.9	3767936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-02
829	ALL	364607.9	3768036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-03
830	ALL	364622.2	3768049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-03
831	ALL	364636.5	3768061	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
832	ALL	364650.7	3768074	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02
833	ALL	364665	3768086	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-02
834	ALL	364679.3	3768098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
835	ALL	364693.5	3768111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-03
836	ALL	364723	3768107	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-02
837	ALL	364734.2	3768092	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-02
838	ALL	364745.4	3768076	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-02
839	ALL	364756.6	3768060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-02
840	ALL	364767.8	3768044	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-02
841	ALL	364779.1	3768028	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-02
842	ALL	364790.3	3768013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-02
843	ALL	364801.5	3767997	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02
844	ALL	364803.8	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-03
845	ALL	364780.5	3767952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-03
846	ALL	364764.9	3767941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-03
847	ALL	364749.3	3767930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03
848	ALL	364733.6	3767919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03
849	ALL	364718	3767908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-03
850	ALL	364702.3	3767897	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-03
851	ALL	364686.7	3767885	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-03
852	ALL	364667.3	3767883	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-03
853	ALL	364642.5	3767904	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
854	ALL	364629.7	3767918	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02
855	ALL	364616.9	3767932	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02
856	ALL	364604	3767946	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02
857	ALL	364591.2	3767960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
858	ALL	364578.4	3767974	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-03
859	ALL	364565.6	3767988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
860	ALL	364595	3768046	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03
861	ALL	364621.1	3768021	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
862	ALL	364706.7	3768096	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02
863	ALL	364785.2	3767985	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02
864	ALL	364786	3767982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02
865	ALL	364784.6	3767979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
866	ALL	364675.1	3767902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02
867	ALL	364670.1	3767904	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02
868	ALL	364567.5	3768016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-03
869	ALL	364567.7	3768022	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03

HARP2 - HRACalc (dated 19044) 2/25/2020 9:10:12 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_CancerRisk.csv
Cancer risk total by receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_NCChronicRisk.csv
Chronic risk total by receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_NCAcuteRisk.csv
Acute risk total by receptor saved to:
C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_NCAcuteRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v19044 2/25/2020 9:10:12 AM - Cancer Risk - Input File: C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_HRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		363650	3767000	3.43E-09	1YrCancerR	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		363750	3767000	3.65E-09	1YrCancerR	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		363850	3767000	3.89E-09	1YrCancerR	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		363950	3767000	4.16E-09	1YrCancerR	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		364050	3767000	4.43E-09	1YrCancerR	4.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		364150	3767000	4.70E-09	1YrCancerR	4.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		364250	3767000	4.93E-09	1YrCancerR	4.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		364350	3767000	5.12E-09	1YrCancerR	5.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		364450	3767000	5.26E-09	1YrCancerR	5.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		364550	3767000	5.35E-09	1YrCancerR	5.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		364650	3767000	5.37E-09	1YrCancerR	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		364750	3767000	5.27E-09	1YrCancerR	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		364850	3767000	5.06E-09	1YrCancerR	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		364950	3767000	4.73E-09	1YrCancerR	4.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		365050	3767000	4.35E-09	1YrCancerR	4.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		365150	3767000	3.97E-09	1YrCancerR	3.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		365250	3767000	3.60E-09	1YrCancerR	3.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		365350	3767000	3.26E-09	1YrCancerR	3.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		365450	3767000	2.96E-09	1YrCancerR	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		365550	3767000	2.69E-09	1YrCancerR	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		365650	3767000	2.45E-09	1YrCancerR	2.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		363650	3767100	3.81E-09	1YrCancerR	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		363750	3767100	4.10E-09	1YrCancerR	4.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		363850	3767100	4.41E-09	1YrCancerR	4.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		363950	3767100	4.76E-09	1YrCancerR	4.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		364050	3767100	5.14E-09	1YrCancerR	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		364150	3767100	5.52E-09	1YrCancerR	5.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		364250	3767100	5.88E-09	1YrCancerR	5.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		364350	3767100	6.18E-09	1YrCancerR	6.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		364450	3767100	6.41E-09	1YrCancerR	6.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		364550	3767100	6.55E-09	1YrCancerR	6.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		364650	3767100	6.58E-09	1YrCancerR	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		364750	3767100	6.46E-09	1YrCancerR	6.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		364850	3767100	6.14E-09	1YrCancerR	6.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		364950	3767100	5.66E-09	1YrCancerR	5.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		365050	3767100	5.13E-09	1YrCancerR	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		365150	3767100	4.60E-09	1YrCancerR	4.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		365250	3767100	4.12E-09	1YrCancerR	4.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		365350	3767100	3.68E-09	1YrCancerR	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		365450	3767100	3.30E-09	1YrCancerR	3.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		365550	3767100	2.96E-09	1YrCancerR	2.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		365650	3767100	2.68E-09	1YrCancerR	2.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		363650	3767200	4.21E-09	1YrCancerR	4.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		363750	3767200	4.60E-09	1YrCancerR	4.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		363850	3767200	5.03E-09	1YrCancerR	5.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		363950	3767200	5.51E-09	1YrCancerR	5.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		364050	3767200	6.01E-09	1YrCancerR	6.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		364150	3767200	6.58E-09	1YrCancerR	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		364250	3767200	7.11E-09	1YrCancerR	7.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		364350	3767200	7.61E-09	1YrCancerR	7.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		364450	3767200	8.00E-09	1YrCancerR	8.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		364550	3767200	8.24E-09	1YrCancerR	8.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		364650	3767200	8.31E-09	1YrCancerR	8.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		364750	3767200	8.09E-09	1YrCancerR	8.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		364850	3767200	7.62E-09	1YrCancerR	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		364950	3767200	6.92E-09	1YrCancerR	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		365050	3767200	6.15E-09	1YrCancerR	6.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		365150	3767200	5.40E-09	1YrCancerR	5.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		365250	3767200	4.75E-09	1YrCancerR	4.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		365350	3767200	4.18E-09	1YrCancerR	4.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		365450	3767200	3.69E-09	1YrCancerR	3.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		365550	3767200	3.28E-09	1YrCancerR	3.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		365650	3767200	2.93E-09	1YrCancerR	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		363650	3767300	4.63E-09	1YrCancerR	4.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		363750	3767300	5.14E-09	1YrCancerR	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		363850	3767300	5.75E-09	1YrCancerR	5.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		363950	3767300	6.42E-09	1YrCancerR	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		364050	3767300	7.16E-09	1YrCancerR	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		364150	3767300	7.97E-09	1YrCancerR	7.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		364250	3767300	8.82E-09	1YrCancerR	8.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		364350	3767300	9.60E-09	1YrCancerR	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		364450	3767300	1.03E-08	1YrCancerR	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		364550	3767300	1.07E-08	1YrCancerR	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		364650	3767300	1.08E-08	1YrCancerR	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		364750	3767300	1.06E-08	1YrCancerR	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		364850	3767300	9.76E-09	1YrCancerR	9.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		364950	3767300	8.65E-09	1YrCancerR	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		365050	3767300	7.50E-09	1YrCancerR	7.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		365150	3767300	6.43E-09	1YrCancerR	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		365250	3767300	5.53E-09	1YrCancerR	5.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		365350	3767300	4.78E-09	1YrCancerR	4.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		365450	3767300	4.15E-09	1YrCancerR	4.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		365550	3767300	3.63E-09	1YrCancerR	3.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		365650	3767300	3.20E-09	1YrCancerR	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		363650	3767400	5.06E-09	1YrCancerR	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		363750	3767400	5.73E-09	1YrCancerR	5.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		363850	3767400	6.53E-09	1YrCancerR	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		363950	3767400	7.49E-09	1YrCancerR	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

89	ALL	364050	3767400	8.59E-09	1YrCancerF	8.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	364150	3767400	9.84E-09	1YrCancerF	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	364250	3767400	1.12E-08	1YrCancerF	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	364350	3767400	1.25E-08	1YrCancerF	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	364450	3767400	1.37E-08	1YrCancerF	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	364550	3767400	1.46E-08	1YrCancerF	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	364650	3767400	1.49E-08	1YrCancerF	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	364750	3767400	1.44E-08	1YrCancerF	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	364850	3767400	1.30E-08	1YrCancerF	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	364950	3767400	1.11E-08	1YrCancerF	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	365050	3767400	9.33E-09	1YrCancerF	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	365150	3767400	7.77E-09	1YrCancerF	7.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	365250	3767400	6.50E-09	1YrCancerF	6.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	365350	3767400	5.48E-09	1YrCancerF	5.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	365450	3767400	4.67E-09	1YrCancerF	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	365550	3767400	4.02E-09	1YrCancerF	4.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	365650	3767400	3.50E-09	1YrCancerF	3.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	363650	3767500	5.46E-09	1YrCancerF	5.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	363750	3767500	6.31E-09	1YrCancerF	6.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	363850	3767500	7.35E-09	1YrCancerF	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	363950	3767500	8.65E-09	1YrCancerF	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	364050	3767500	1.03E-08	1YrCancerF	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	364150	3767500	1.22E-08	1YrCancerF	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	364250	3767500	1.45E-08	1YrCancerF	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	364350	3767500	1.68E-08	1YrCancerF	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	364450	3767500	1.92E-08	1YrCancerF	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	364550	3767500	2.11E-08	1YrCancerF	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	364650	3767500	2.18E-08	1YrCancerF	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	364750	3767500	2.07E-08	1YrCancerF	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	364850	3767500	1.81E-08	1YrCancerF	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	364950	3767500	1.48E-08	1YrCancerF	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	365050	3767500	1.19E-08	1YrCancerF	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	365150	3767500	9.50E-09	1YrCancerF	9.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	365250	3767500	7.70E-09	1YrCancerF	7.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	365350	3767500	6.32E-09	1YrCancerF	6.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	365450	3767500	5.26E-09	1YrCancerF	5.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	365550	3767500	4.46E-09	1YrCancerF	4.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	365650	3767500	3.81E-09	1YrCancerF	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	363650	3767600	5.81E-09	1YrCancerF	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	363750	3767600	6.81E-09	1YrCancerF	6.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	363850	3767600	8.11E-09	1YrCancerF	8.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	363950	3767600	9.81E-09	1YrCancerF	9.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	364050	3767600	1.20E-08	1YrCancerF	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	364150	3767600	1.50E-08	1YrCancerF	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	364250	3767600	1.88E-08	1YrCancerF	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	364350	3767600	2.33E-08	1YrCancerF	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	364450	3767600	2.86E-08	1YrCancerF	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	364550	3767600	3.31E-08	1YrCancerF	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	364650	3767600	3.51E-08	1YrCancerF	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	364750	3767600	3.26E-08	1YrCancerF	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	364850	3767600	2.68E-08	1YrCancerF	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	364950	3767600	2.05E-08	1YrCancerF	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	365050	3767600	1.55E-08	1YrCancerF	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	365150	3767600	1.18E-08	1YrCancerF	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	365250	3767600	9.14E-09	1YrCancerF	9.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	365350	3767600	7.25E-09	1YrCancerF	7.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	365450	3767600	5.91E-09	1YrCancerF	5.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	365550	3767600	4.91E-09	1YrCancerF	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	365650	3767600	4.15E-09	1YrCancerF	4.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	363650	3767700	6.02E-09	1YrCancerF	6.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	363750	3767700	7.15E-09	1YrCancerF	7.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	363850	3767700	8.96E-09	1YrCancerF	8.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	363950	3767700	1.08E-08	1YrCancerF	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	364050	3767700	1.37E-08	1YrCancerF	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	364150	3767700	1.80E-08	1YrCancerF	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	364250	3767700	2.41E-08	1YrCancerF	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	364350	3767700	3.30E-08	1YrCancerF	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	364450	3767700	4.52E-08	1YrCancerF	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	364550	3767700	5.84E-08	1YrCancerF	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	364650	3767700	6.59E-08	1YrCancerF	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	364750	3767700	5.90E-08	1YrCancerF	5.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	364850	3767700	4.32E-08	1YrCancerF	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	364950	3767700	2.96E-08	1YrCancerF	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	365050	3767700	2.04E-08	1YrCancerF	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	365150	3767700	1.46E-08	1YrCancerF	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	365250	3767700	1.08E-08	1YrCancerF	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	365350	3767700	8.31E-09	1YrCancerF	8.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	365450	3767700	6.61E-09	1YrCancerF	6.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	365550	3767700	5.39E-09	1YrCancerF	5.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	365650	3767700	4.50E-09	1YrCancerF	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	363650	3767800	6.52E-09	1YrCancerF	6.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	363750	3767800	8.17E-09	1YrCancerF	8.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	363850	3767800	1.02E-08	1YrCancerF	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	363950	3767800	1.30E-08	1YrCancerF	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	364050	3767800	1.58E-08	1YrCancerF	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	364150	3767800	2.05E-08	1YrCancerF	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	364250	3767800	2.97E-08	1YrCancerF	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	364350	3767800	4.54E-08	1YrCancerF	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	364450	3767800	7.41E-08	1YrCancerF	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	364550	3767800	1.23E-07	1YrCancerF	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

179	ALL	364650	3767800	1.67E-07	1YrCancerF	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	364750	3767800	1.31E-07	1YrCancerF	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	364850	3767800	7.67E-08	1YrCancerF	7.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	364950	3767800	4.41E-08	1YrCancerF	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	365050	3767800	2.71E-08	1YrCancerF	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	365150	3767800	1.80E-08	1YrCancerF	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	365250	3767800	1.28E-08	1YrCancerF	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	365350	3767800	9.52E-09	1YrCancerF	9.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	365450	3767800	7.42E-09	1YrCancerF	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	365550	3767800	5.97E-09	1YrCancerF	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	365650	3767800	4.91E-09	1YrCancerF	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	363650	3767900	6.12E-09	1YrCancerF	6.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	363750	3767900	7.06E-09	1YrCancerF	7.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	363850	3767900	8.84E-09	1YrCancerF	8.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	363950	3767900	1.21E-08	1YrCancerF	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	364050	3767900	1.64E-08	1YrCancerF	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	364150	3767900	2.21E-08	1YrCancerF	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	364250	3767900	3.33E-08	1YrCancerF	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	364350	3767900	5.59E-08	1YrCancerF	5.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	364450	3767900	1.11E-07	1YrCancerF	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	364550	3767900	3.00E-07	1YrCancerF	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	364650	3767900	1.11E-06	1YrCancerF	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	364750	3767900	4.20E-07	1YrCancerF	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	364850	3767900	1.57E-07	1YrCancerF	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	364950	3767900	6.93E-08	1YrCancerF	6.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	365050	3767900	3.75E-08	1YrCancerF	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	365150	3767900	2.33E-08	1YrCancerF	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	365250	3767900	1.58E-08	1YrCancerF	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	365350	3767900	1.14E-08	1YrCancerF	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	365450	3767900	8.69E-09	1YrCancerF	8.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	365550	3767900	6.84E-09	1YrCancerF	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	365650	3767900	5.54E-09	1YrCancerF	5.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	363650	3768000	5.02E-09	1YrCancerF	5.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	363750	3768000	5.81E-09	1YrCancerF	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	363850	3768000	7.57E-09	1YrCancerF	7.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	363950	3768000	1.07E-08	1YrCancerF	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	364050	3768000	1.48E-08	1YrCancerF	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	364150	3768000	2.19E-08	1YrCancerF	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	364250	3768000	3.26E-08	1YrCancerF	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	364350	3768000	5.70E-08	1YrCancerF	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	364450	3768000	1.19E-07	1YrCancerF	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	364850	3768000	4.56E-07	1YrCancerF	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	364950	3768000	1.46E-07	1YrCancerF	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	365050	3768000	6.64E-08	1YrCancerF	6.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	365150	3768000	3.69E-08	1YrCancerF	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	365250	3768000	2.30E-08	1YrCancerF	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	365350	3768000	1.57E-08	1YrCancerF	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	365450	3768000	1.13E-08	1YrCancerF	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	365550	3768000	8.57E-09	1YrCancerF	8.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	365650	3768000	6.72E-09	1YrCancerF	6.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	363650	3768100	4.49E-09	1YrCancerF	4.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	363750	3768100	5.42E-09	1YrCancerF	5.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	363850	3768100	7.57E-09	1YrCancerF	7.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	363950	3768100	1.08E-08	1YrCancerF	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	364050	3768100	1.40E-08	1YrCancerF	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	364150	3768100	1.91E-08	1YrCancerF	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	364250	3768100	2.83E-08	1YrCancerF	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	364350	3768100	4.69E-08	1YrCancerF	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	364450	3768100	8.96E-08	1YrCancerF	8.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	364550	3768100	1.98E-07	1YrCancerF	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	364650	3768100	6.02E-07	1YrCancerF	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	364750	3768100	2.26E-06	1YrCancerF	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	364850	3768100	9.81E-07	1YrCancerF	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	364950	3768100	3.22E-07	1YrCancerF	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	365050	3768100	1.33E-07	1YrCancerF	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	365150	3768100	6.82E-08	1YrCancerF	6.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	365250	3768100	3.91E-08	1YrCancerF	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	365350	3768100	2.46E-08	1YrCancerF	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	365450	3768100	1.67E-08	1YrCancerF	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	365550	3768100	1.19E-08	1YrCancerF	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	365650	3768100	8.92E-09	1YrCancerF	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	363650	3768200	4.82E-09	1YrCancerF	4.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	363750	3768200	6.08E-09	1YrCancerF	6.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	363850	3768200	7.21E-09	1YrCancerF	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	363950	3768200	8.94E-09	1YrCancerF	8.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	364050	3768200	1.16E-08	1YrCancerF	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	364150	3768200	1.56E-08	1YrCancerF	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	364250	3768200	2.24E-08	1YrCancerF	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	364350	3768200	3.46E-08	1YrCancerF	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	364450	3768200	5.56E-08	1YrCancerF	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	364550	3768200	8.78E-08	1YrCancerF	8.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	364650	3768200	1.50E-07	1YrCancerF	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	364750	3768200	3.16E-07	1YrCancerF	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	364850	3768200	4.50E-07	1YrCancerF	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	364950	3768200	3.18E-07	1YrCancerF	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	365050	3768200	1.77E-07	1YrCancerF	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	365150	3768200	9.85E-08	1YrCancerF	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	365250	3768200	5.99E-08	1YrCancerF	5.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	365350	3768200	3.73E-08	1YrCancerF	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	365450	3768200	2.47E-08	1YrCancerF	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

269	ALL	365550	3768200	1.71E-08	1YrCancerF	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	365650	3768200	1.24E-08	1YrCancerF	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	363650	3768300	4.62E-09	1YrCancerF	4.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	363750	3768300	5.36E-09	1YrCancerF	5.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	363850	3768300	6.35E-09	1YrCancerF	6.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	363950	3768300	7.69E-09	1YrCancerF	7.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	364050	3768300	9.65E-09	1YrCancerF	9.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	364150	3768300	1.26E-08	1YrCancerF	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	364250	3768300	1.71E-08	1YrCancerF	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	364350	3768300	2.37E-08	1YrCancerF	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	364450	3768300	3.23E-08	1YrCancerF	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	364550	3768300	4.31E-08	1YrCancerF	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	364650	3768300	6.56E-08	1YrCancerF	6.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	364750	3768300	9.96E-08	1YrCancerF	9.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	364850	3768300	1.59E-07	1YrCancerF	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	364950	3768300	1.78E-07	1YrCancerF	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	365050	3768300	1.45E-07	1YrCancerF	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	365150	3768300	1.02E-07	1YrCancerF	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	365250	3768300	7.14E-08	1YrCancerF	7.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	365350	3768300	4.74E-08	1YrCancerF	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	365450	3768300	3.22E-08	1YrCancerF	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	365550	3768300	2.29E-08	1YrCancerF	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	365650	3768300	1.67E-08	1YrCancerF	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	363650	3768400	4.13E-09	1YrCancerF	4.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	363750	3768400	4.72E-09	1YrCancerF	4.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	363850	3768400	5.47E-09	1YrCancerF	5.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	363950	3768400	6.50E-09	1YrCancerF	6.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	364050	3768400	7.94E-09	1YrCancerF	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	364150	3768400	1.01E-08	1YrCancerF	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	364250	3768400	1.31E-08	1YrCancerF	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	364350	3768400	1.66E-08	1YrCancerF	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	364450	3768400	2.02E-08	1YrCancerF	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	364550	3768400	2.48E-08	1YrCancerF	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	364650	3768400	3.42E-08	1YrCancerF	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	364750	3768400	4.61E-08	1YrCancerF	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	364850	3768400	6.94E-08	1YrCancerF	6.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	364950	3768400	8.83E-08	1YrCancerF	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	365050	3768400	9.14E-08	1YrCancerF	9.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	365150	3768400	8.12E-08	1YrCancerF	8.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	365250	3768400	6.59E-08	1YrCancerF	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	365350	3768400	4.93E-08	1YrCancerF	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	365450	3768400	3.61E-08	1YrCancerF	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	365550	3768400	2.63E-08	1YrCancerF	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	365650	3768400	2.05E-08	1YrCancerF	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	363650	3768500	3.62E-09	1YrCancerF	3.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	363750	3768500	4.08E-09	1YrCancerF	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	363850	3768500	4.69E-09	1YrCancerF	4.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	363950	3768500	5.41E-09	1YrCancerF	5.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	364050	3768500	6.55E-09	1YrCancerF	6.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	364150	3768500	8.19E-09	1YrCancerF	8.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	364250	3768500	9.92E-09	1YrCancerF	9.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	364350	3768500	1.13E-08	1YrCancerF	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	364450	3768500	1.32E-08	1YrCancerF	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	364550	3768500	1.62E-08	1YrCancerF	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	364650	3768500	2.06E-08	1YrCancerF	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	364750	3768500	2.64E-08	1YrCancerF	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	364850	3768500	3.58E-08	1YrCancerF	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	364950	3768500	4.74E-08	1YrCancerF	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	365050	3768500	5.44E-08	1YrCancerF	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	365150	3768500	5.61E-08	1YrCancerF	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	365250	3768500	5.18E-08	1YrCancerF	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	365350	3768500	4.39E-08	1YrCancerF	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	365450	3768500	3.57E-08	1YrCancerF	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	365550	3768500	2.77E-08	1YrCancerF	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	365650	3768500	2.14E-08	1YrCancerF	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	363650	3768600	3.15E-09	1YrCancerF	3.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	363750	3768600	3.53E-09	1YrCancerF	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	363850	3768600	3.93E-09	1YrCancerF	3.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	363950	3768600	4.66E-09	1YrCancerF	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	364050	3768600	5.50E-09	1YrCancerF	5.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	364150	3768600	6.54E-09	1YrCancerF	6.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	364250	3768600	7.16E-09	1YrCancerF	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	364350	3768600	8.13E-09	1YrCancerF	8.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	364450	3768600	9.17E-09	1YrCancerF	9.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	364550	3768600	1.09E-08	1YrCancerF	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	364650	3768600	1.38E-08	1YrCancerF	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	364750	3768600	1.66E-08	1YrCancerF	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	364850	3768600	2.12E-08	1YrCancerF	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	364950	3768600	2.79E-08	1YrCancerF	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	365050	3768600	3.28E-08	1YrCancerF	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	365150	3768600	3.72E-08	1YrCancerF	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	365250	3768600	3.73E-08	1YrCancerF	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	365350	3768600	3.51E-08	1YrCancerF	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	365450	3768600	3.11E-08	1YrCancerF	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	365550	3768600	2.65E-08	1YrCancerF	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	365650	3768600	2.18E-08	1YrCancerF	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	363650	3768700	2.75E-09	1YrCancerF	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	363750	3768700	3.08E-09	1YrCancerF	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	363850	3768700	3.47E-09	1YrCancerF	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	363950	3768700	4.01E-09	1YrCancerF	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

359	ALL	364050	3768700	4.62E-09	1YrCancerF	4.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	364150	3768700	5.23E-09	1YrCancerF	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	364250	3768700	5.57E-09	1YrCancerF	5.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	364350	3768700	6.06E-09	1YrCancerF	6.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	364450	3768700	6.82E-09	1YrCancerF	6.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	364550	3768700	8.03E-09	1YrCancerF	8.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	364650	3768700	9.69E-09	1YrCancerF	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	364750	3768700	1.11E-08	1YrCancerF	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	364850	3768700	1.36E-08	1YrCancerF	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	364950	3768700	1.75E-08	1YrCancerF	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	365050	3768700	2.10E-08	1YrCancerF	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	365150	3768700	2.46E-08	1YrCancerF	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	365250	3768700	2.64E-08	1YrCancerF	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	365350	3768700	2.64E-08	1YrCancerF	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	365450	3768700	2.54E-08	1YrCancerF	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	365550	3768700	2.30E-08	1YrCancerF	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	365650	3768700	2.04E-08	1YrCancerF	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	363650	3768800	2.43E-09	1YrCancerF	2.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	363750	3768800	2.73E-09	1YrCancerF	2.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	363850	3768800	3.09E-09	1YrCancerF	3.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	363950	3768800	3.43E-09	1YrCancerF	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	364050	3768800	3.75E-09	1YrCancerF	3.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	364150	3768800	4.24E-09	1YrCancerF	4.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	364250	3768800	4.40E-09	1YrCancerF	4.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	364350	3768800	4.73E-09	1YrCancerF	4.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	364450	3768800	5.20E-09	1YrCancerF	5.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	364550	3768800	5.98E-09	1YrCancerF	5.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	364650	3768800	7.26E-09	1YrCancerF	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	364750	3768800	8.02E-09	1YrCancerF	8.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	364850	3768800	9.51E-09	1YrCancerF	9.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	364950	3768800	1.19E-08	1YrCancerF	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	365050	3768800	1.42E-08	1YrCancerF	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	365150	3768800	1.69E-08	1YrCancerF	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	365250	3768800	1.85E-08	1YrCancerF	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	365350	3768800	1.95E-08	1YrCancerF	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	365450	3768800	1.97E-08	1YrCancerF	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	365550	3768800	1.91E-08	1YrCancerF	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	365650	3768800	1.79E-08	1YrCancerF	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	363650	3768900	2.20E-09	1YrCancerF	2.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	363750	3768900	2.48E-09	1YrCancerF	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	363850	3768900	2.71E-09	1YrCancerF	2.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	363950	3768900	2.91E-09	1YrCancerF	2.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	364050	3768900	3.10E-09	1YrCancerF	3.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	364150	3768900	3.32E-09	1YrCancerF	3.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	364250	3768900	3.55E-09	1YrCancerF	3.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	364350	3768900	3.79E-09	1YrCancerF	3.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	364450	3768900	4.17E-09	1YrCancerF	4.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	364550	3768900	4.64E-09	1YrCancerF	4.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	364650	3768900	5.46E-09	1YrCancerF	5.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	364750	3768900	6.36E-09	1YrCancerF	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	364850	3768900	7.00E-09	1YrCancerF	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	364950	3768900	8.58E-09	1YrCancerF	8.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	365050	3768900	1.02E-08	1YrCancerF	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	365150	3768900	1.20E-08	1YrCancerF	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	365250	3768900	1.34E-08	1YrCancerF	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	365350	3768900	1.45E-08	1YrCancerF	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	365450	3768900	1.52E-08	1YrCancerF	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	365550	3768900	1.53E-08	1YrCancerF	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	365650	3768900	1.50E-08	1YrCancerF	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	363650	3769000	2.04E-09	1YrCancerF	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	363750	3769000	2.23E-09	1YrCancerF	2.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	363850	3769000	2.36E-09	1YrCancerF	2.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	363950	3769000	2.46E-09	1YrCancerF	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	364050	3769000	2.60E-09	1YrCancerF	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	364150	3769000	2.79E-09	1YrCancerF	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	364250	3769000	2.95E-09	1YrCancerF	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	364350	3769000	3.17E-09	1YrCancerF	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	364450	3769000	3.45E-09	1YrCancerF	3.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	364550	3769000	3.83E-09	1YrCancerF	3.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	364650	3769000	4.28E-09	1YrCancerF	4.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	364750	3769000	4.82E-09	1YrCancerF	4.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	364850	3769000	5.46E-09	1YrCancerF	5.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	364950	3769000	6.46E-09	1YrCancerF	6.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	365050	3769000	7.59E-09	1YrCancerF	7.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	365150	3769000	8.81E-09	1YrCancerF	8.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	365250	3769000	9.92E-09	1YrCancerF	9.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	365350	3769000	1.09E-08	1YrCancerF	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	365450	3769000	1.17E-08	1YrCancerF	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	365550	3769000	1.21E-08	1YrCancerF	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	365650	3769000	1.24E-08	1YrCancerF	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	364450	3767750	5.79E-08	1YrCancerF	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	364475	3767750	6.37E-08	1YrCancerF	6.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	364500	3767750	6.99E-08	1YrCancerF	6.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	364525	3767750	7.63E-08	1YrCancerF	7.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	364550	3767750	8.27E-08	1YrCancerF	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	364575	3767750	8.84E-08	1YrCancerF	8.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	364600	3767750	9.38E-08	1YrCancerF	9.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	364625	3767750	9.76E-08	1YrCancerF	9.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	364650	3767750	9.93E-08	1YrCancerF	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	364675	3767750	9.89E-08	1YrCancerF	9.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

449	ALL	364700	3767750	9.61E-08	1YrCancerF	9.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	364725	3767750	9.11E-08	1YrCancerF	9.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	364750	3767750	8.48E-08	1YrCancerF	8.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	364775	3767750	7.79E-08	1YrCancerF	7.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	364800	3767750	7.05E-08	1YrCancerF	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	364825	3767750	6.35E-08	1YrCancerF	6.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	364850	3767750	5.69E-08	1YrCancerF	5.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	364875	3767750	5.07E-08	1YrCancerF	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	364900	3767750	4.52E-08	1YrCancerF	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	364925	3767750	4.03E-08	1YrCancerF	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	364950	3767750	3.60E-08	1YrCancerF	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	364450	3767775	6.56E-08	1YrCancerF	6.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	364475	3767775	7.33E-08	1YrCancerF	7.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	364500	3767775	8.19E-08	1YrCancerF	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	364525	3767775	9.10E-08	1YrCancerF	9.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	364550	3767775	1.00E-07	1YrCancerF	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	364575	3767775	1.09E-07	1YrCancerF	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	364600	3767775	1.18E-07	1YrCancerF	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	364625	3767775	1.24E-07	1YrCancerF	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	364650	3767775	1.27E-07	1YrCancerF	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	364675	3767775	1.26E-07	1YrCancerF	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	364700	3767775	1.21E-07	1YrCancerF	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	364725	3767775	1.14E-07	1YrCancerF	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	364750	3767775	1.04E-07	1YrCancerF	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	364775	3767775	9.42E-08	1YrCancerF	9.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	364800	3767775	8.40E-08	1YrCancerF	8.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	364825	3767775	7.44E-08	1YrCancerF	7.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	364850	3767775	6.59E-08	1YrCancerF	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	364875	3767775	5.79E-08	1YrCancerF	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	364900	3767775	5.11E-08	1YrCancerF	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	364925	3767775	4.50E-08	1YrCancerF	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	364950	3767775	3.98E-08	1YrCancerF	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	364450	3767800	7.41E-08	1YrCancerF	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	364475	3767800	8.44E-08	1YrCancerF	8.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	364500	3767800	9.62E-08	1YrCancerF	9.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	364525	3767800	1.09E-07	1YrCancerF	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	364550	3767800	1.23E-07	1YrCancerF	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	364575	3767800	1.38E-07	1YrCancerF	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	364600	3767800	1.51E-07	1YrCancerF	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	364625	3767800	1.62E-07	1YrCancerF	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	364650	3767800	1.67E-07	1YrCancerF	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	364675	3767800	1.66E-07	1YrCancerF	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	364700	3767800	1.58E-07	1YrCancerF	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	364725	3767800	1.46E-07	1YrCancerF	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	364750	3767800	1.31E-07	1YrCancerF	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	364775	3767800	1.16E-07	1YrCancerF	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	364800	3767800	1.02E-07	1YrCancerF	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	364825	3767800	8.84E-08	1YrCancerF	8.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	364850	3767800	7.67E-08	1YrCancerF	7.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	364875	3767800	6.66E-08	1YrCancerF	6.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	364900	3767800	5.79E-08	1YrCancerF	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	364925	3767800	5.04E-08	1YrCancerF	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	364950	3767800	4.41E-08	1YrCancerF	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	364450	3767825	8.34E-08	1YrCancerF	8.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	364475	3767825	9.69E-08	1YrCancerF	9.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	364500	3767825	1.13E-07	1YrCancerF	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	364525	3767825	1.32E-07	1YrCancerF	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	364550	3767825	1.54E-07	1YrCancerF	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	364575	3767825	1.77E-07	1YrCancerF	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	364600	3767825	2.01E-07	1YrCancerF	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	364625	3767825	2.20E-07	1YrCancerF	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	364650	3767825	2.31E-07	1YrCancerF	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	364675	3767825	2.29E-07	1YrCancerF	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	364700	3767825	2.14E-07	1YrCancerF	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	364725	3767825	1.92E-07	1YrCancerF	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	364750	3767825	1.68E-07	1YrCancerF	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	364775	3767825	1.45E-07	1YrCancerF	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	364800	3767825	1.25E-07	1YrCancerF	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	364825	3767825	1.06E-07	1YrCancerF	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	364850	3767825	9.03E-08	1YrCancerF	9.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	364875	3767825	7.70E-08	1YrCancerF	7.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	364900	3767825	6.58E-08	1YrCancerF	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	364925	3767825	5.66E-08	1YrCancerF	5.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	364950	3767825	4.90E-08	1YrCancerF	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	364450	3767850	9.31E-08	1YrCancerF	9.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	364475	3767850	1.10E-07	1YrCancerF	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	364500	3767850	1.32E-07	1YrCancerF	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	364525	3767850	1.59E-07	1YrCancerF	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	364550	3767850	1.93E-07	1YrCancerF	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	364575	3767850	2.33E-07	1YrCancerF	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	364600	3767850	2.78E-07	1YrCancerF	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	364625	3767850	3.19E-07	1YrCancerF	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	364650	3767850	3.42E-07	1YrCancerF	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	364675	3767850	3.38E-07	1YrCancerF	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	364700	3767850	3.05E-07	1YrCancerF	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	364725	3767850	2.63E-07	1YrCancerF	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	364750	3767850	2.22E-07	1YrCancerF	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	364775	3767850	1.85E-07	1YrCancerF	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	364800	3767850	1.55E-07	1YrCancerF	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	364825	3767850	1.29E-07	1YrCancerF	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

539	ALL	364850	3767850	1.07E-07	1YrCancerF	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	364875	3767850	8.94E-08	1YrCancerF	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	364900	3767850	7.53E-08	1YrCancerF	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	364925	3767850	6.39E-08	1YrCancerF	6.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	364950	3767850	5.45E-08	1YrCancerF	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	364450	3767875	1.03E-07	1YrCancerF	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	364475	3767875	1.24E-07	1YrCancerF	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	364500	3767875	1.53E-07	1YrCancerF	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	364525	3767875	1.91E-07	1YrCancerF	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	364550	3767875	2.42E-07	1YrCancerF	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	364575	3767875	3.12E-07	1YrCancerF	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	364600	3767875	4.00E-07	1YrCancerF	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	364625	3767875	4.96E-07	1YrCancerF	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	364650	3767875	5.64E-07	1YrCancerF	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	364675	3767875	5.47E-07	1YrCancerF	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	364700	3767875	4.66E-07	1YrCancerF	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	364725	3767875	3.75E-07	1YrCancerF	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	364750	3767875	3.00E-07	1YrCancerF	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	364775	3767875	2.41E-07	1YrCancerF	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	364800	3767875	1.96E-07	1YrCancerF	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	364825	3767875	1.59E-07	1YrCancerF	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	364850	3767875	1.29E-07	1YrCancerF	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	364875	3767875	1.05E-07	1YrCancerF	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	364900	3767875	8.67E-08	1YrCancerF	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	364925	3767875	7.25E-08	1YrCancerF	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	364950	3767875	6.12E-08	1YrCancerF	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	364450	3767900	1.11E-07	1YrCancerF	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	364475	3767900	1.37E-07	1YrCancerF	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	364500	3767900	1.73E-07	1YrCancerF	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	364525	3767900	2.24E-07	1YrCancerF	2.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	364550	3767900	3.00E-07	1YrCancerF	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	364575	3767900	4.15E-07	1YrCancerF	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	364600	3767900	5.95E-07	1YrCancerF	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	364625	3767900	8.64E-07	1YrCancerF	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	364650	3767900	1.11E-06	1YrCancerF	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	364700	3767900	7.72E-07	1YrCancerF	7.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	364725	3767900	5.56E-07	1YrCancerF	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	364750	3767900	4.20E-07	1YrCancerF	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	364775	3767900	3.26E-07	1YrCancerF	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	364800	3767900	2.55E-07	1YrCancerF	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	364825	3767900	1.99E-07	1YrCancerF	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	364850	3767900	1.57E-07	1YrCancerF	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	364875	3767900	1.26E-07	1YrCancerF	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	364900	3767900	1.02E-07	1YrCancerF	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	364925	3767900	8.32E-08	1YrCancerF	8.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	364950	3767900	6.93E-08	1YrCancerF	6.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	364450	3767925	1.17E-07	1YrCancerF	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	364475	3767925	1.47E-07	1YrCancerF	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	364500	3767925	1.89E-07	1YrCancerF	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	364525	3767925	2.51E-07	1YrCancerF	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	364550	3767925	3.56E-07	1YrCancerF	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	364575	3767925	5.34E-07	1YrCancerF	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	364600	3767925	8.72E-07	1YrCancerF	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	364625	3767925	1.57E-06	1YrCancerF	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	364675	3767925	2.63E-06	1YrCancerF	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	364700	3767925	1.43E-06	1YrCancerF	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	364750	3767925	6.31E-07	1YrCancerF	6.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	364775	3767925	4.73E-07	1YrCancerF	4.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	364800	3767925	3.53E-07	1YrCancerF	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	364825	3767925	2.62E-07	1YrCancerF	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	364850	3767925	1.98E-07	1YrCancerF	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	364875	3767925	1.53E-07	1YrCancerF	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	364900	3767925	1.21E-07	1YrCancerF	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	364925	3767925	9.77E-08	1YrCancerF	9.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	364950	3767925	8.01E-08	1YrCancerF	8.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	364450	3767950	1.21E-07	1YrCancerF	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	364475	3767950	1.53E-07	1YrCancerF	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	364500	3767950	2.00E-07	1YrCancerF	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	364525	3767950	2.70E-07	1YrCancerF	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	364550	3767950	3.90E-07	1YrCancerF	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	364575	3767950	6.26E-07	1YrCancerF	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	364600	3767950	1.14E-06	1YrCancerF	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	364775	3767950	7.46E-07	1YrCancerF	7.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	364800	3767950	5.16E-07	1YrCancerF	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	364825	3767950	3.58E-07	1YrCancerF	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	364850	3767950	2.58E-07	1YrCancerF	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	364875	3767950	1.92E-07	1YrCancerF	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	364900	3767950	1.48E-07	1YrCancerF	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	364925	3767950	1.17E-07	1YrCancerF	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	364950	3767950	9.48E-08	1YrCancerF	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	364450	3767975	1.22E-07	1YrCancerF	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	364475	3767975	1.55E-07	1YrCancerF	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	364500	3767975	2.03E-07	1YrCancerF	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	364525	3767975	2.77E-07	1YrCancerF	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	364550	3767975	3.99E-07	1YrCancerF	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	364575	3767975	6.55E-07	1YrCancerF	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	364825	3767975	4.90E-07	1YrCancerF	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	364850	3767975	3.39E-07	1YrCancerF	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	364875	3767975	2.46E-07	1YrCancerF	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	364900	3767975	1.86E-07	1YrCancerF	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

629	ALL	364925	3767975	1.45E-07	1YrCancerF	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	364950	3767975	1.16E-07	1YrCancerF	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	364450	3768000	1.19E-07	1YrCancerF	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	364475	3768000	1.51E-07	1YrCancerF	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	364500	3768000	1.96E-07	1YrCancerF	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	364525	3768000	2.67E-07	1YrCancerF	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	364800	3768000	1.11E-06	1YrCancerF	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	364825	3768000	6.78E-07	1YrCancerF	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	364850	3768000	4.56E-07	1YrCancerF	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	364875	3768000	3.24E-07	1YrCancerF	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	364900	3768000	2.41E-07	1YrCancerF	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	364925	3768000	1.84E-07	1YrCancerF	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	364950	3768000	1.46E-07	1YrCancerF	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	364450	3768025	1.14E-07	1YrCancerF	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	364475	3768025	1.43E-07	1YrCancerF	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	364500	3768025	1.84E-07	1YrCancerF	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	364525	3768025	2.45E-07	1YrCancerF	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	364800	3768025	1.79E-06	1YrCancerF	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	364825	3768025	1.01E-06	1YrCancerF	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	364850	3768025	6.37E-07	1YrCancerF	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	364875	3768025	4.38E-07	1YrCancerF	4.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	364900	3768025	3.18E-07	1YrCancerF	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	364925	3768025	2.39E-07	1YrCancerF	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	364950	3768025	1.85E-07	1YrCancerF	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	364450	3768050	1.08E-07	1YrCancerF	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	364475	3768050	1.35E-07	1YrCancerF	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	364500	3768050	1.68E-07	1YrCancerF	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	364525	3768050	2.18E-07	1YrCancerF	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	364550	3768050	2.91E-07	1YrCancerF	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	364600	3768050	5.69E-07	1YrCancerF	5.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	364625	3768050	8.84E-07	1YrCancerF	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	364775	3768050	3.81E-06	1YrCancerF	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	364800	3768050	2.19E-06	1YrCancerF	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	364825	3768050	1.32E-06	1YrCancerF	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	364850	3768050	8.40E-07	1YrCancerF	8.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	364875	3768050	5.72E-07	1YrCancerF	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	364900	3768050	4.09E-07	1YrCancerF	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	364925	3768050	3.05E-07	1YrCancerF	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	364950	3768050	2.32E-07	1YrCancerF	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	364450	3768075	1.00E-07	1YrCancerF	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	364475	3768075	1.23E-07	1YrCancerF	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	364500	3768075	1.49E-07	1YrCancerF	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	364525	3768075	1.87E-07	1YrCancerF	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	364550	3768075	2.41E-07	1YrCancerF	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	364575	3768075	3.19E-07	1YrCancerF	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	364625	3768075	6.21E-07	1YrCancerF	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	364650	3768075	9.49E-07	1YrCancerF	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	364750	3768075	4.49E-06	1YrCancerF	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	364775	3768075	3.26E-06	1YrCancerF	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	364800	3768075	2.15E-06	1YrCancerF	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	364825	3768075	1.44E-06	1YrCancerF	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	364850	3768075	9.72E-07	1YrCancerF	9.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	364875	3768075	6.80E-07	1YrCancerF	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	364900	3768075	4.93E-07	1YrCancerF	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	364925	3768075	3.68E-07	1YrCancerF	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	364950	3768075	2.81E-07	1YrCancerF	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	364450	3768100	8.96E-08	1YrCancerF	8.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	364475	3768100	1.08E-07	1YrCancerF	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	364500	3768100	1.31E-07	1YrCancerF	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	364525	3768100	1.58E-07	1YrCancerF	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	364550	3768100	1.98E-07	1YrCancerF	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	364575	3768100	2.44E-07	1YrCancerF	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	364600	3768100	3.25E-07	1YrCancerF	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	364650	3768100	6.02E-07	1YrCancerF	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	364675	3768100	8.36E-07	1YrCancerF	8.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	364725	3768100	1.82E-06	1YrCancerF	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	364750	3768100	2.26E-06	1YrCancerF	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	364775	3768100	2.17E-06	1YrCancerF	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	364800	3768100	1.77E-06	1YrCancerF	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	364825	3768100	1.33E-06	1YrCancerF	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	364850	3768100	9.81E-07	1YrCancerF	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	364875	3768100	7.28E-07	1YrCancerF	7.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	364900	3768100	5.43E-07	1YrCancerF	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	364925	3768100	4.15E-07	1YrCancerF	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	364950	3768100	3.22E-07	1YrCancerF	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	364450	3768125	7.93E-08	1YrCancerF	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	364475	3768125	9.50E-08	1YrCancerF	9.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	364500	3768125	1.13E-07	1YrCancerF	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	364525	3768125	1.31E-07	1YrCancerF	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	364550	3768125	1.49E-07	1YrCancerF	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	364575	3768125	1.82E-07	1YrCancerF	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	364600	3768125	2.41E-07	1YrCancerF	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	364625	3768125	3.12E-07	1YrCancerF	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	364675	3768125	5.24E-07	1YrCancerF	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	364700	3768125	7.02E-07	1YrCancerF	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	364725	3768125	9.49E-07	1YrCancerF	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	364750	3768125	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	364775	3768125	1.34E-06	1YrCancerF	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	364800	3768125	1.27E-06	1YrCancerF	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	364825	3768125	1.09E-06	1YrCancerF	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719	ALL	364850	3768125	8.89E-07	1YrCancerF	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	364875	3768125	7.05E-07	1YrCancerF	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	364900	3768125	5.50E-07	1YrCancerF	5.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	364925	3768125	4.36E-07	1YrCancerF	4.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	364950	3768125	3.48E-07	1YrCancerF	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	364450	3768150	7.11E-08	1YrCancerF	7.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	364475	3768150	8.19E-08	1YrCancerF	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	364500	3768150	9.70E-08	1YrCancerF	9.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	364525	3768150	1.13E-07	1YrCancerF	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	364550	3768150	1.29E-07	1YrCancerF	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	364575	3768150	1.46E-07	1YrCancerF	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	364600	3768150	1.86E-07	1YrCancerF	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	364625	3768150	2.28E-07	1YrCancerF	2.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	364650	3768150	2.83E-07	1YrCancerF	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	364700	3768150	4.42E-07	1YrCancerF	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	364725	3768150	5.66E-07	1YrCancerF	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	364750	3768150	7.19E-07	1YrCancerF	7.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	364775	3768150	8.34E-07	1YrCancerF	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	364800	3768150	8.73E-07	1YrCancerF	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	364825	3768150	8.30E-07	1YrCancerF	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	364850	3768150	7.39E-07	1YrCancerF	7.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	364875	3768150	6.30E-07	1YrCancerF	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	364900	3768150	5.24E-07	1YrCancerF	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	364925	3768150	4.32E-07	1YrCancerF	4.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	364950	3768150	3.54E-07	1YrCancerF	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	364450	3768175	6.29E-08	1YrCancerF	6.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	364475	3768175	7.18E-08	1YrCancerF	7.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	364500	3768175	8.28E-08	1YrCancerF	8.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	364525	3768175	9.48E-08	1YrCancerF	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	364550	3768175	1.09E-07	1YrCancerF	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	364575	3768175	1.21E-07	1YrCancerF	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	364600	3768175	1.41E-07	1YrCancerF	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	364625	3768175	1.69E-07	1YrCancerF	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	364650	3768175	1.96E-07	1YrCancerF	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	364675	3768175	2.43E-07	1YrCancerF	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	364700	3768175	3.03E-07	1YrCancerF	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	364725	3768175	3.74E-07	1YrCancerF	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	364750	3768175	4.60E-07	1YrCancerF	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	364775	3768175	5.43E-07	1YrCancerF	5.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	364800	3768175	6.00E-07	1YrCancerF	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	364825	3768175	6.11E-07	1YrCancerF	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	364850	3768175	5.84E-07	1YrCancerF	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	364875	3768175	5.31E-07	1YrCancerF	5.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	364900	3768175	4.68E-07	1YrCancerF	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	364925	3768175	4.03E-07	1YrCancerF	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	364950	3768175	3.44E-07	1YrCancerF	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	364450	3768200	5.56E-08	1YrCancerF	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	364475	3768200	6.21E-08	1YrCancerF	6.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	364500	3768200	7.07E-08	1YrCancerF	7.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	364525	3768200	7.87E-08	1YrCancerF	7.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	364550	3768200	8.78E-08	1YrCancerF	8.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	364575	3768200	9.91E-08	1YrCancerF	9.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	364600	3768200	1.12E-07	1YrCancerF	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	364625	3768200	1.28E-07	1YrCancerF	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	364650	3768200	1.50E-07	1YrCancerF	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	364675	3768200	1.83E-07	1YrCancerF	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	364700	3768200	2.19E-07	1YrCancerF	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	364725	3768200	2.63E-07	1YrCancerF	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	364750	3768200	3.16E-07	1YrCancerF	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	364775	3768200	3.72E-07	1YrCancerF	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	364800	3768200	4.19E-07	1YrCancerF	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	364825	3768200	4.48E-07	1YrCancerF	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	364850	3768200	4.50E-07	1YrCancerF	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	364875	3768200	4.31E-07	1YrCancerF	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	364900	3768200	4.00E-07	1YrCancerF	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	364925	3768200	3.60E-07	1YrCancerF	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	364950	3768200	3.18E-07	1YrCancerF	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	364450	3768225	4.89E-08	1YrCancerF	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	364475	3768225	5.40E-08	1YrCancerF	5.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	364500	3768225	6.05E-08	1YrCancerF	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	364525	3768225	6.45E-08	1YrCancerF	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	364550	3768225	7.19E-08	1YrCancerF	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	364575	3768225	8.04E-08	1YrCancerF	8.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	364600	3768225	9.06E-08	1YrCancerF	9.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	364625	3768225	1.03E-07	1YrCancerF	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	364650	3768225	1.18E-07	1YrCancerF	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	364675	3768225	1.42E-07	1YrCancerF	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	364700	3768225	1.65E-07	1YrCancerF	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	364725	3768225	1.94E-07	1YrCancerF	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	364750	3768225	2.29E-07	1YrCancerF	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	364775	3768225	2.66E-07	1YrCancerF	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	364800	3768225	3.01E-07	1YrCancerF	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	364825	3768225	3.30E-07	1YrCancerF	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	364850	3768225	3.44E-07	1YrCancerF	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	364875	3768225	3.44E-07	1YrCancerF	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	364900	3768225	3.33E-07	1YrCancerF	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	364925	3768225	3.11E-07	1YrCancerF	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	364950	3768225	2.85E-07	1YrCancerF	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	364450	3768250	4.15E-08	1YrCancerF	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	364475	3768250	4.55E-08	1YrCancerF	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

809	ALL	364500	3768250	4.98E-08	1YrCancerF	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	364525	3768250	5.45E-08	1YrCancerF	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	364550	3768250	5.97E-08	1YrCancerF	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	364575	3768250	6.61E-08	1YrCancerF	6.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	364600	3768250	7.39E-08	1YrCancerF	7.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	364625	3768250	8.40E-08	1YrCancerF	8.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	364650	3768250	9.48E-08	1YrCancerF	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	364675	3768250	1.07E-07	1YrCancerF	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	364700	3768250	1.28E-07	1YrCancerF	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	364725	3768250	1.43E-07	1YrCancerF	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	364750	3768250	1.67E-07	1YrCancerF	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	364775	3768250	1.94E-07	1YrCancerF	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	364800	3768250	2.20E-07	1YrCancerF	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	364825	3768250	2.44E-07	1YrCancerF	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	364850	3768250	2.63E-07	1YrCancerF	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	364875	3768250	2.74E-07	1YrCancerF	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	364900	3768250	2.72E-07	1YrCancerF	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	364925	3768250	2.63E-07	1YrCancerF	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	364950	3768250	2.48E-07	1YrCancerF	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	364699.9	3767936	2.02E-06	1YrCancerF	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	364607.9	3768036	7.56E-07	1YrCancerF	7.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	364622.2	3768049	8.50E-07	1YrCancerF	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	364636.5	3768061	9.38E-07	1YrCancerF	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	364650.7	3768074	9.91E-07	1YrCancerF	9.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	364665	3768086	9.73E-07	1YrCancerF	9.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	364679.3	3768098	9.20E-07	1YrCancerF	9.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	364693.5	3768111	8.70E-07	1YrCancerF	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	364723	3768107	1.44E-06	1YrCancerF	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	364734.2	3768092	2.61E-06	1YrCancerF	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	364745.4	3768076	4.53E-06	1YrCancerF	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	364756.6	3768060	5.49E-06	1YrCancerF	5.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	364767.8	3768044	4.50E-06	1YrCancerF	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	364779.1	3768028	3.30E-06	1YrCancerF	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	364790.3	3768013	1.85E-06	1YrCancerF	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	364801.5	3767997	1.02E-06	1YrCancerF	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	364803.8	3767975	6.99E-07	1YrCancerF	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	364780.5	3767952	7.13E-07	1YrCancerF	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	364764.9	3767941	7.15E-07	1YrCancerF	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	364749.3	3767930	6.97E-07	1YrCancerF	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	364733.6	3767919	6.87E-07	1YrCancerF	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	364718	3767908	6.96E-07	1YrCancerF	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	364702.3	3767897	6.95E-07	1YrCancerF	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	364686.7	3767885	6.44E-07	1YrCancerF	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	364667.3	3767883	6.87E-07	1YrCancerF	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	364642.5	3767904	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	364629.7	3767918	1.49E-06	1YrCancerF	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	364616.9	3767932	1.47E-06	1YrCancerF	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	364604	3767946	1.24E-06	1YrCancerF	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	364591.2	3767960	9.48E-07	1YrCancerF	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	364578.4	3767974	7.06E-07	1YrCancerF	7.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	364565.6	3767988	5.24E-07	1YrCancerF	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	364595	3768046	5.49E-07	1YrCancerF	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	364621.1	3768021	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	364706.7	3768096	1.58E-06	1YrCancerF	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	364785.2	3767985	1.21E-06	1YrCancerF	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	364786	3767982	1.12E-06	1YrCancerF	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	364784.6	3767979	1.10E-06	1YrCancerF	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	364675.1	3767902	1.11E-06	1YrCancerF	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	364670.1	3767904	1.24E-06	1YrCancerF	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	364567.5	3768016	4.66E-07	1YrCancerF	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	364567.7	3768022	4.48E-07	1YrCancerF	4.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/25/2020 9:10:12 AM - Chronic Risk - Input File: C:\Users\jreed\Desktop\HARP2\ARCADIAWTP_CON_Mit_T4I\hra\ArcadiaWTP_Con_Mit_T4I_HRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		363650	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06
2	ALL		363750	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06
3	ALL		363850	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-06
4	ALL		363950	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
5	ALL		364050	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06
6	ALL		364150	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06
7	ALL		364250	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-06
8	ALL		364350	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-06
9	ALL		364450	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06
10	ALL		364550	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06
11	ALL		364650	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06
12	ALL		364750	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06
13	ALL		364850	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06
14	ALL		364950	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06
15	ALL		365050	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06
16	ALL		365150	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06
17	ALL		365250	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-06
18	ALL		365350	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06
19	ALL		365450	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06
20	ALL		365550	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-06
21	ALL		365650	3767000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06
22	ALL		363650	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
23	ALL		363750	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06
24	ALL		363850	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-06
25	ALL		363950	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-06
26	ALL		364050	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-06
27	ALL		364150	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06
28	ALL		364250	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06
29	ALL		364350	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06
30	ALL		364450	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06
31	ALL		364550	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06
32	ALL		364650	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06
33	ALL		364750	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06
34	ALL		364850	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-06
35	ALL		364950	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06
36	ALL		365050	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-06
37	ALL		365150	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06
38	ALL		365250	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06
39	ALL		365350	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
40	ALL		365450	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-06
41	ALL		365550	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06
42	ALL		365650	3767100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-06
43	ALL		363650	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06
44	ALL		363750	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06
45	ALL		363850	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-06
46	ALL		363950	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06
47	ALL		364050	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06
48	ALL		364150	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06
49	ALL		364250	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06
50	ALL		364350	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-06
51	ALL		364450	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06
52	ALL		364550	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-06
53	ALL		364650	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-06
54	ALL		364750	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06
55	ALL		364850	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-06
56	ALL		364950	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-06
57	ALL		365050	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-06
58	ALL		365150	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-06
59	ALL		365250	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06
60	ALL		365350	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06
61	ALL		365450	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-06
62	ALL		365550	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
63	ALL		365650	3767200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06
64	ALL		363650	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-06
65	ALL		363750	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-06
66	ALL		363850	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06
67	ALL		363950	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06
68	ALL		364050	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
69	ALL		364150	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-06
70	ALL		364250	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06
71	ALL		364350	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
72	ALL		364450	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
73	ALL		364550	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
74	ALL		364650	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
75	ALL		364750	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
76	ALL		364850	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
77	ALL		364950	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-06
78	ALL		365050	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
79	ALL		365150	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06
80	ALL		365250	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
81	ALL		365350	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-06
82	ALL		365450	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06
83	ALL		365550	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-06
84	ALL		365650	3767300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-06
85	ALL		363650	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06
86	ALL		363750	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06
87	ALL		363850	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-06
88	ALL		363950	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06
89	ALL		364050	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06
90	ALL		364150	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
91	ALL		364250	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
92	ALL		364350	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
93	ALL		364450	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
94	ALL		364550	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
95	ALL		364650	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
96	ALL		364750	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
97	ALL		364850	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.

100	ALL	365150	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06
101	ALL	365250	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06
102	ALL	365350	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06
103	ALL	365450	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-06
104	ALL	365550	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
105	ALL	365650	3767400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06
106	ALL	363650	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06
107	ALL	363750	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06
108	ALL	363850	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06
109	ALL	363950	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06
110	ALL	364050	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
111	ALL	364150	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
112	ALL	364250	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
113	ALL	364350	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
114	ALL	364450	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
115	ALL	364550	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
116	ALL	364650	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
117	ALL	364750	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
118	ALL	364850	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
119	ALL	364950	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
120	ALL	365050	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
121	ALL	365150	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
122	ALL	365250	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06
123	ALL	365350	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06
124	ALL	365450	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-06
125	ALL	365550	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06
126	ALL	365650	3767500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-06
127	ALL	363650	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06
128	ALL	363750	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06
129	ALL	363850	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06
130	ALL	363950	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
131	ALL	364050	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
132	ALL	364150	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
133	ALL	364250	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
134	ALL	364350	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
135	ALL	364450	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
136	ALL	364550	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
137	ALL	364650	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
138	ALL	364750	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
139	ALL	364850	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
140	ALL	364950	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
141	ALL	365050	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
142	ALL	365150	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
143	ALL	365250	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
144	ALL	365350	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06
145	ALL	365450	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
146	ALL	365550	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06
147	ALL	365650	3767600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-06
148	ALL	363650	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06
149	ALL	363750	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
150	ALL	363850	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
151	ALL	363950	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
152	ALL	364050	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
153	ALL	364150	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
154	ALL	364250	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
155	ALL	364350	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
156	ALL	364450	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
157	ALL	364550	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05
158	ALL	364650	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
159	ALL	364750	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05
160	ALL	364850	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
161	ALL	364950	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
162	ALL	365050	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
163	ALL	365150	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
164	ALL	365250	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
165	ALL	365350	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-06
166	ALL	365450	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06
167	ALL	365550	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06
168	ALL	365650	3767700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-06
169	ALL	363650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06
170	ALL	363750	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-06
171	ALL	363850	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
172	ALL	363950	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
173	ALL	364050	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
174	ALL	364150	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
175	ALL	364250	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
176	ALL	364350	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
177	ALL	364450	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
178	ALL	364550	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
179	ALL	364650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
180	ALL	364750	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
181	ALL	364850	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05
182	ALL	364950	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
183	ALL	365050	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
184	ALL	365150	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
185	ALL	365250	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
186	ALL	365350	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
187	ALL	365450	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06
188	ALL	365550	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06
189	ALL	365650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06
190	ALL	363650	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
191	ALL	363750	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06
192	ALL	363850	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-06
193	ALL	363950	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
194	ALL	364050	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
195	ALL	364150	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
196	ALL	364250	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
197	ALL	364350	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
198	ALL	364450	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

201	ALL	364750	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04
202	ALL	364850	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
203	ALL	364950	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
204	ALL	365050	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
205	ALL	365150	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
206	ALL	365250	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
207	ALL	365350	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
208	ALL	365450	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06
209	ALL	365550	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06
210	ALL	365650	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06
211	ALL	363650	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06
212	ALL	363750	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-06
213	ALL	363850	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06
214	ALL	363950	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
215	ALL	364050	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
216	ALL	364150	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
217	ALL	364250	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
218	ALL	364350	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05
219	ALL	364450	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
220	ALL	364850	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
221	ALL	364950	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
222	ALL	365050	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
223	ALL	365150	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
224	ALL	365250	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
225	ALL	365350	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
226	ALL	365450	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
227	ALL	365550	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06
228	ALL	365650	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06
229	ALL	363650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06
230	ALL	363750	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-06
231	ALL	363850	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06
232	ALL	363950	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
233	ALL	364050	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
234	ALL	364150	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
235	ALL	364250	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
236	ALL	364350	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
237	ALL	364450	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
238	ALL	364550	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
239	ALL	364650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04
240	ALL	364750	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03
241	ALL	364850	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
242	ALL	364950	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
243	ALL	365050	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
244	ALL	365150	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
245	ALL	365250	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
246	ALL	365350	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
247	ALL	365450	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
248	ALL	365550	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
249	ALL	365650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
250	ALL	363650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06
251	ALL	363750	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06
252	ALL	363850	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-06
253	ALL	363950	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
254	ALL	364050	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
255	ALL	364150	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
256	ALL	364250	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
257	ALL	364350	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
258	ALL	364450	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
259	ALL	364550	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05
260	ALL	364650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
261	ALL	364750	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
262	ALL	364850	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
263	ALL	364950	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
264	ALL	365050	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
265	ALL	365150	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
266	ALL	365250	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
267	ALL	365350	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
268	ALL	365450	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
269	ALL	365550	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
270	ALL	365650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
271	ALL	363650	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-06
272	ALL	363750	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06
273	ALL	363850	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-06
274	ALL	363950	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06
275	ALL	364050	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
276	ALL	364150	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
277	ALL	364250	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
278	ALL	364350	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
279	ALL	364450	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
280	ALL	364550	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
281	ALL	364650	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05
282	ALL	364750	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
283	ALL	364850	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
284	ALL	364950	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
285	ALL	365050	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
286	ALL	365150	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
287	ALL	365250	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
288	ALL	365350	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
289	ALL	365450	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
290	ALL	365550	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
291	ALL	365650	3768300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
292	ALL	363650	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06
293	ALL	363750	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06
294	ALL	363850	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06
295	ALL	363950	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06
296	ALL	364050	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06
297	ALL	364150	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
298	ALL	364250	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
299	ALL	364350	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

302	ALL	364650	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
303	ALL	364750	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
304	ALL	364850	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
305	ALL	364950	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
306	ALL	365050	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
307	ALL	365150	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
308	ALL	365250	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
309	ALL	365350	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
310	ALL	365450	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
311	ALL	365550	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
312	ALL	365650	3768400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
313	ALL	363650	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-06
314	ALL	363750	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06
315	ALL	363850	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06
316	ALL	363950	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-06
317	ALL	364050	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-06
318	ALL	364150	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06
319	ALL	364250	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
320	ALL	364350	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
321	ALL	364450	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
322	ALL	364550	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
323	ALL	364650	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
324	ALL	364750	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
325	ALL	364850	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
326	ALL	364950	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
327	ALL	365050	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05
328	ALL	365150	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-05
329	ALL	365250	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
330	ALL	365350	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
331	ALL	365450	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
332	ALL	365550	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
333	ALL	365650	3768500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
334	ALL	363650	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-06
335	ALL	363750	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06
336	ALL	363850	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06
337	ALL	363950	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06
338	ALL	364050	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06
339	ALL	364150	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
340	ALL	364250	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
341	ALL	364350	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-06
342	ALL	364450	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
343	ALL	364550	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
344	ALL	364650	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
345	ALL	364750	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
346	ALL	364850	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
347	ALL	364950	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
348	ALL	365050	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
349	ALL	365150	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
350	ALL	365250	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
351	ALL	365350	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
352	ALL	365450	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
353	ALL	365550	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
354	ALL	365650	3768600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
355	ALL	363650	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-06
356	ALL	363750	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-06
357	ALL	363850	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-06
358	ALL	363950	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-06
359	ALL	364050	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-06
360	ALL	364150	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06
361	ALL	364250	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06
362	ALL	364350	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06
363	ALL	364450	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-06
364	ALL	364550	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
365	ALL	364650	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
366	ALL	364750	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
367	ALL	364850	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
368	ALL	364950	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
369	ALL	365050	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
370	ALL	365150	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
371	ALL	365250	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
372	ALL	365350	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
373	ALL	365450	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
374	ALL	365550	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
375	ALL	365650	3768700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
376	ALL	363650	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-06
377	ALL	363750	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-06
378	ALL	363850	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06
379	ALL	363950	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06
380	ALL	364050	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-06
381	ALL	364150	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-06
382	ALL	364250	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06
383	ALL	364350	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06
384	ALL	364450	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06
385	ALL	364550	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06
386	ALL	364650	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06
387	ALL	364750	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06
388	ALL	364850	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
389	ALL	364950	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
390	ALL	365050	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
391	ALL	365150	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
392	ALL	365250	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
393	ALL	365350	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
394	ALL	365450	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
395	ALL	365550	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
396	ALL	365650	3768800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
397	ALL	363650	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-06
398	ALL	363750	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-06
399	ALL	363850	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06
400	ALL	363950	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

403	ALL	364250	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-06
404	ALL	364350	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-06
405	ALL	364450	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06
406	ALL	364550	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06
407	ALL	364650	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06
408	ALL	364750	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06
409	ALL	364850	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06
410	ALL	364950	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06
411	ALL	365050	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
412	ALL	365150	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
413	ALL	365250	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
414	ALL	365350	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
415	ALL	365450	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
416	ALL	365550	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
417	ALL	365650	3768900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
418	ALL	363650	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-06
419	ALL	363750	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06
420	ALL	363850	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06
421	ALL	363950	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-06
422	ALL	364050	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-06
423	ALL	364150	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-06
424	ALL	364250	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-06
425	ALL	364350	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-06
426	ALL	364450	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06
427	ALL	364550	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-06
428	ALL	364650	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06
429	ALL	364750	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06
430	ALL	364850	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-06
431	ALL	364950	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06
432	ALL	365050	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-06
433	ALL	365150	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06
434	ALL	365250	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
435	ALL	365350	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
436	ALL	365450	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
437	ALL	365550	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
438	ALL	365650	3769000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
439	ALL	364450	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
440	ALL	364475	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
441	ALL	364500	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05
442	ALL	364525	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-05
443	ALL	364550	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-05
444	ALL	364575	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
445	ALL	364600	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
446	ALL	364625	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
447	ALL	364650	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
448	ALL	364675	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
449	ALL	364700	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
450	ALL	364725	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
451	ALL	364750	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05
452	ALL	364775	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05
453	ALL	364800	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
454	ALL	364825	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
455	ALL	364850	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
456	ALL	364875	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05
457	ALL	364900	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
458	ALL	364925	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
459	ALL	364950	3767750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
460	ALL	364450	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
461	ALL	364475	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05
462	ALL	364500	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
463	ALL	364525	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
464	ALL	364550	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
465	ALL	364575	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
466	ALL	364600	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
467	ALL	364625	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
468	ALL	364650	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
469	ALL	364675	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
470	ALL	364700	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
471	ALL	364725	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
472	ALL	364750	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
473	ALL	364775	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
474	ALL	364800	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
475	ALL	364825	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05
476	ALL	364850	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
477	ALL	364875	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
478	ALL	364900	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
479	ALL	364925	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05
480	ALL	364950	3767775	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
481	ALL	364450	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
482	ALL	364475	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
483	ALL	364500	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
484	ALL	364525	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
485	ALL	364550	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
486	ALL	364575	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
487	ALL	364600	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
488	ALL	364625	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
489	ALL	364650	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
490	ALL	364675	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
491	ALL	364700	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
492	ALL	364725	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
493	ALL	364750	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
494	ALL	364775	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
495	ALL	364800	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
496	ALL	364825	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
497	ALL	364850	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05
498	ALL	364875	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
499	ALL	364900	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
500	ALL	364925	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
501	ALL	364950	3767800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

504	ALL	364500	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
505	ALL	364525	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
506	ALL	364550	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
507	ALL	364575	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
508	ALL	364600	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
509	ALL	364625	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
510	ALL	364650	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
511	ALL	364675	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
512	ALL	364700	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
513	ALL	364725	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
514	ALL	364750	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
515	ALL	364775	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
516	ALL	364800	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
517	ALL	364825	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
518	ALL	364850	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
519	ALL	364875	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05
520	ALL	364900	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
521	ALL	364925	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
522	ALL	364950	3767825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
523	ALL	364450	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
524	ALL	364475	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
525	ALL	364500	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
526	ALL	364525	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
527	ALL	364550	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
528	ALL	364575	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
529	ALL	364600	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
530	ALL	364625	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
531	ALL	364650	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
532	ALL	364675	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04
533	ALL	364700	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
534	ALL	364725	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
535	ALL	364750	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
536	ALL	364775	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
537	ALL	364800	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
538	ALL	364825	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
539	ALL	364850	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
540	ALL	364875	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
541	ALL	364900	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
542	ALL	364925	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
543	ALL	364950	3767850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
544	ALL	364450	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
545	ALL	364475	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
546	ALL	364500	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
547	ALL	364525	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
548	ALL	364550	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
549	ALL	364575	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
550	ALL	364600	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
551	ALL	364625	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04
552	ALL	364650	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04
553	ALL	364675	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04
554	ALL	364700	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
555	ALL	364725	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-04
556	ALL	364750	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
557	ALL	364775	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
558	ALL	364800	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
559	ALL	364825	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
560	ALL	364850	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
561	ALL	364875	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
562	ALL	364900	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05
563	ALL	364925	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05
564	ALL	364950	3767875	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
565	ALL	364450	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
566	ALL	364475	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
567	ALL	364500	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
568	ALL	364525	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
569	ALL	364550	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
570	ALL	364575	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
571	ALL	364600	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04
572	ALL	364625	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04
573	ALL	364650	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
574	ALL	364700	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04
575	ALL	364725	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
576	ALL	364750	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04
577	ALL	364775	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
578	ALL	364800	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
579	ALL	364825	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
580	ALL	364850	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
581	ALL	364875	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
582	ALL	364900	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
583	ALL	364925	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05
584	ALL	364950	3767900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
585	ALL	364450	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
586	ALL	364475	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
587	ALL	364500	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
588	ALL	364525	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
589	ALL	364550	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
590	ALL	364575	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-04
591	ALL	364600	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
592	ALL	364625	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
593	ALL	364675	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03
594	ALL	364700	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
595	ALL	364750	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
596	ALL	364775	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
597	ALL	364800	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04
598	ALL	364825	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
599	ALL	364850	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
600	ALL	364875	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
601	ALL	364900	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
602	ALL	364925	3767925	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

605	ALL	364475	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
606	ALL	364500	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
607	ALL	364525	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
608	ALL	364550	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04
609	ALL	364575	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-04
610	ALL	364600	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
611	ALL	364775	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-04
612	ALL	364800	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04
613	ALL	364825	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
614	ALL	364850	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
615	ALL	364875	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
616	ALL	364900	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
617	ALL	364925	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
618	ALL	364950	3767950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
619	ALL	364450	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
620	ALL	364475	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
621	ALL	364500	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
622	ALL	364525	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
623	ALL	364550	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
624	ALL	364575	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04
625	ALL	364825	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04
626	ALL	364850	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
627	ALL	364875	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
628	ALL	364900	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
629	ALL	364925	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
630	ALL	364950	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
631	ALL	364450	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
632	ALL	364475	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
633	ALL	364500	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
634	ALL	364525	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
635	ALL	364800	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
636	ALL	364825	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
637	ALL	364850	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
638	ALL	364875	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
639	ALL	364900	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
640	ALL	364925	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
641	ALL	364950	3768000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
642	ALL	364450	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
643	ALL	364475	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
644	ALL	364500	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
645	ALL	364525	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
646	ALL	364800	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
647	ALL	364825	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
648	ALL	364850	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
649	ALL	364875	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04
650	ALL	364900	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
651	ALL	364925	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
652	ALL	364950	3768025	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
653	ALL	364450	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
654	ALL	364475	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
655	ALL	364500	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
656	ALL	364525	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
657	ALL	364550	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
658	ALL	364600	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-04
659	ALL	364625	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-04
660	ALL	364775	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03
661	ALL	364800	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
662	ALL	364825	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
663	ALL	364850	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
664	ALL	364875	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-04
665	ALL	364900	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-04
666	ALL	364925	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
667	ALL	364950	3768050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
668	ALL	364450	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
669	ALL	364475	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
670	ALL	364500	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
671	ALL	364525	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
672	ALL	364550	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
673	ALL	364575	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04
674	ALL	364625	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04
675	ALL	364650	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
676	ALL	364750	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03
677	ALL	364775	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
678	ALL	364800	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03
679	ALL	364825	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
680	ALL	364850	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
681	ALL	364875	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04
682	ALL	364900	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
683	ALL	364925	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
684	ALL	364950	3768075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
685	ALL	364450	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
686	ALL	364475	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
687	ALL	364500	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
688	ALL	364525	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
689	ALL	364550	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
690	ALL	364575	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
691	ALL	364600	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
692	ALL	364650	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-04
693	ALL	364675	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04
694	ALL	364725	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03
695	ALL	364750	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03
696	ALL	364775	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
697	ALL	364800	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
698	ALL	364825	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
699	ALL	364850	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
700	ALL	364875	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
701	ALL	364900	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
702	ALL	364925	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
703	ALL	364950	3768100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

706	ALL	364500	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
707	ALL	364525	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
708	ALL	364550	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
709	ALL	364575	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
710	ALL	364600	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
711	ALL	364625	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
712	ALL	364675	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
713	ALL	364700	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04
714	ALL	364725	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
715	ALL	364750	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
716	ALL	364775	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
717	ALL	364800	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
718	ALL	364825	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
719	ALL	364850	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
720	ALL	364875	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04
721	ALL	364900	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
722	ALL	364925	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04
723	ALL	364950	3768125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
724	ALL	364450	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05
725	ALL	364475	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
726	ALL	364500	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
727	ALL	364525	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
728	ALL	364550	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
729	ALL	364575	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
730	ALL	364600	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
731	ALL	364625	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
732	ALL	364650	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
733	ALL	364700	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
734	ALL	364725	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04
735	ALL	364750	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04
736	ALL	364775	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04
737	ALL	364800	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04
738	ALL	364825	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04
739	ALL	364850	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
740	ALL	364875	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-04
741	ALL	364900	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
742	ALL	364925	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
743	ALL	364950	3768150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
744	ALL	364450	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05
745	ALL	364475	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
746	ALL	364500	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
747	ALL	364525	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
748	ALL	364550	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
749	ALL	364575	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
750	ALL	364600	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
751	ALL	364625	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
752	ALL	364650	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
753	ALL	364675	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
754	ALL	364700	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
755	ALL	364725	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
756	ALL	364750	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
757	ALL	364775	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
758	ALL	364800	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04
759	ALL	364825	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
760	ALL	364850	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
761	ALL	364875	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-04
762	ALL	364900	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04
763	ALL	364925	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
764	ALL	364950	3768175	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
765	ALL	364450	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
766	ALL	364475	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
767	ALL	364500	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
768	ALL	364525	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05
769	ALL	364550	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05
770	ALL	364575	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
771	ALL	364600	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
772	ALL	364625	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
773	ALL	364650	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
774	ALL	364675	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
775	ALL	364700	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
776	ALL	364725	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
777	ALL	364750	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
778	ALL	364775	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04
779	ALL	364800	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
780	ALL	364825	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
781	ALL	364850	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
782	ALL	364875	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
783	ALL	364900	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04
784	ALL	364925	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
785	ALL	364950	3768200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
786	ALL	364450	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
787	ALL	364475	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
788	ALL	364500	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
789	ALL	364525	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05
790	ALL	364550	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
791	ALL	364575	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05
792	ALL	364600	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
793	ALL	364625	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
794	ALL	364650	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
795	ALL	364675	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
796	ALL	364700	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
797	ALL	364725	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
798	ALL	364750	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
799	ALL	364775	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
800	ALL	364800	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
801	ALL	364825	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
802	ALL	364850	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
803	ALL	364875	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
804	ALL	364900	3768225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00

807	ALL	364450	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
808	ALL	364475	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
809	ALL	364500	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
810	ALL	364525	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
811	ALL	364550	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
812	ALL	364575	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
813	ALL	364600	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05
814	ALL	364625	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
815	ALL	364650	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
816	ALL	364675	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
817	ALL	364700	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
818	ALL	364725	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
819	ALL	364750	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
820	ALL	364775	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
821	ALL	364800	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
822	ALL	364825	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
823	ALL	364850	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
824	ALL	364875	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
825	ALL	364900	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
826	ALL	364925	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
827	ALL	364950	3768250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
828	ALL	364699.9	3767936	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
829	ALL	364607.9	3768036	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
830	ALL	364622.2	3768049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-04
831	ALL	364636.5	3768061	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
832	ALL	364650.7	3768074	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
833	ALL	364665	3768086	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
834	ALL	364679.3	3768098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
835	ALL	364693.5	3768111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04
836	ALL	364723	3768107	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
837	ALL	364734.2	3768092	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03
838	ALL	364745.4	3768076	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03
839	ALL	364756.6	3768060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-03
840	ALL	364767.8	3768044	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-03
841	ALL	364779.1	3768028	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03
842	ALL	364790.3	3768013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
843	ALL	364801.5	3767997	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
844	ALL	364803.8	3767975	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-04
845	ALL	364780.5	3767952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-04
846	ALL	364764.9	3767941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04
847	ALL	364749.3	3767930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-04
848	ALL	364733.6	3767919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
849	ALL	364718	3767908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
850	ALL	364702.3	3767897	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04
851	ALL	364686.7	3767885	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04
852	ALL	364667.3	3767883	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
853	ALL	364642.5	3767904	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
854	ALL	364629.7	3767918	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
855	ALL	364616.9	3767932	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
856	ALL	364604	3767946	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
857	ALL	364591.2	3767960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
858	ALL	364578.4	3767974	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04
859	ALL	364565.6	3767988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
860	ALL	364595	3768046	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04
861	ALL	364621.1	3768021	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
862	ALL	364706.7	3768096	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
863	ALL	364785.2	3767985	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
864	ALL	364786	3767982	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
865	ALL	364784.6	3767979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
866	ALL	364675.1	3767902	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
867	ALL	364670.1	3767904	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
868	ALL	364567.5	3768016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
869	ALL	364567.7	3768022	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04

Santa Monica Olympic Wellfield Restoration and Arcadia Treatment Plant Expansion Project

Project Construction Energy Demand

Construction Worker Gasoline Demand

Phase	Trips	Vehicle CO_2 (MT)	Kg CO2/Gallon	Gallons
Well - SM-10 Grading - Well Pad	120	0.61	8.78	69.79
Well - SM-8 Grading - Well Pad	120	0.61	8.78	69.79
Well - SM-9 Grading Well Pad	120	0.61	8.78	69.79
Well - SM-10 Building Construction - Well Equipping	200	1.01	8.78	114.85
Well - SM-8 Building Construction - Well Equipping	200	1.01	8.78	114.85
Well - SM-9 Building Construction - Well Equipping	200	1.01	8.78	114.85
Well - SM-10 Building Construction - Artistic Fencing	120	0.59	8.78	67.59
Well - SM-8 Building Construction - Artistic Fencing	120	0.59	8.78	67.59
Well - SM-9 Building Construction - Artistic Fencing	120	0.59	8.78	67.59
Pipeline - Site Preparation	50	0.25	8.78	28.15
Pipeline - Grading - Slurry Backfill	240	1.19	8.78	135.16
Pipeline - Grading - Installation	720	3.56	8.78	405.48
Pipeline - Continual Paving	360	1.78	8.78	202.74
Pipeline - Continual Pavement Striping	240	1.19	8.78	135.16
Pipeline - Final Paving	60	0.30	8.78	33.79
Pipeline - Final Pavement Striping	4	0.02	8.78	2.26
WTP - Demolition	350	1.67	8.78	190.18
WTP - Site Preparation and Grading	240	1.15	8.78	130.41
WTP - Building Construction 3	1,596	7.61	8.78	867.22
WTP - Building Construction 4	2,288	10.92	8.78	1,243.22
WTP - Building Construction 1	670	3.20	8.78	364.05
WTP - Building Construction 2	1,068	5.10	8.78	580.32
WTP - Building Construction 5	248	1.18	8.78	134.76
WTP - Building Construction 6	2,136	10.19	8.78	1,160.64
WTP - Building Construction 7	536	2.56	8.78	291.24
WTP - Architectural Coating	864	4.09	8.78	465.41
WTP - Paving	276	1.32	8.78	149.97
Well - SM-11 Grading - Well Pad	120	0.55	8.78	62.81
Well - SM-11 Building Construction - Well Equipping	200	0.92	8.78	104.69
Well - SM-11 Building Construction - Artistic Fencing	120	0.55	8.78	62.81
RW Pipeline - Site Preparation	10	0.05	8.78	5.24
RW Pipeline - Grading - Slurry Backfill	40	0.18	8.78	20.95
RW Pipeline - Grading - Installation	120	0.55	8.78	62.81
RW Pipeline - Continual Paving	60	0.28	8.78	31.41
RW Pipeline - Continual Pavement Striping	60	0.18	8.78	20.95
RW Pipeline - Final Paving	8	0.06	8.78	6.29
RW Pipeline - Final Pavement Striping	4	0.02	8.78	2.13
Total				**7,656.96**

Construction Vendor Diesel Demand

Phase	Trips	Vehicle CO_2 (MT)	Kg CO2/Gallon	Gallons
Well - SM-10 Grading - Well Pad	60	0.75	10.21	73.00
Well - SM-8 Grading - Well Pad	60	0.75	10.21	73.00
Well - SM-9 Grading Well Pad	60	0.75	10.21	73.00
Well - SM-10 Building Construction - Well Equipping	50	0.62	10.21	60.64
Well - SM-8 Building Construction - Well Equipping	50	0.62	10.21	60.64
Well - SM-9 Building Construction - Well Equipping	50	0.62	10.21	60.64
Well - SM-10 Building Construction - Artistic Fencing	30	0.37	10.21	36.21
Well - SM-8 Building Construction - Artistic Fencing	30	0.37	10.21	36.21
Well - SM-9 Building Construction - Artistic Fencing	30	0.37	10.21	36.21
Pipeline - Site Preparation	20	0.25	10.21	24.14
Pipeline - Grading - Slurry Backfill	240	2.96	10.21	289.72
Pipeline - Grading - Installation	240	2.96	10.21	289.72
Pipeline - Continual Paving	240	2.96	10.21	289.72
Pipeline - Continual Pavement Striping	240	2.96	10.21	289.72
Pipeline - Final Paving	40	0.49	10.21	48.29
Pipeline - Final Pavement Striping	4	0.05	10.21	4.83
WTP - Demolition	0	0.00	10.21	0.00
WTP - Site Preparation and Grading	0	0.00	10.21	0.00
WTP - Building Construction 3	266	3.25	10.21	318.28
WTP - Building Construction 4	286	3.49	10.21	342.20
WTP - Building Construction 1	134	1.64	10.21	160.33
WTP - Building Construction 2	178	2.17	10.21	212.99
WTP - Building Construction 5	62	0.76	10.21	74.18
WTP - Building Construction 6	178	2.17	10.21	212.99
WTP - Building Construction 7	134	1.64	10.21	160.33
WTP - Architectural Coating	144	1.75	10.21	171.03
WTP - Paving	92	1.13	10.21	110.58
Well - SM-11 Grading - Well Pad	60	0.71	10.21	69.55
Well - SM-11 Building Construction - Well Equipping	50	0.59	10.21	57.95
Well - SM-11 Building Construction - Artistic Fencing	30	0.36	10.21	34.77
RW Pipeline - Site Preparation	4	0.05	10.21	4.63
RW Pipeline - Grading - Slurry Backfill	40	0.47	10.21	46.37
RW Pipeline - Grading - Installation	40	0.47	10.21	46.37
RW Pipeline - Continual Paving	40	0.47	10.21	46.37
RW Pipeline - Continual Pavement Striping	40	0.47	10.21	46.37
RW Pipeline - Final Paving	8	0.09	10.21	9.28
RW Pipeline - Final Pavement Striping	4	0.05	10.21	4.63
Total				**3,874.84**

Construction Haul Diesel Demand

Phase	Trips	Vehicle CO_2 (MT)	Kg CO2/Gallon	Gallons
Well - SM-10 Grading - Well Pad	36	1.39	10.21	135.89
Well - SM-8 Grading - Well Pad	36	1.39	10.21	135.89
Well - SM-9 Grading Well Pad	56	2.16	10.21	211.38
Well - SM-10 Building Construction - Well Equipping	0	0.00	10.21	0.00
Well - SM-8 Building Construction - Well Equipping	0	0.00	10.21	0.00
Well - SM-9 Building Construction - Well Equipping	0	0.00	10.21	0.00
Well - SM-10 Building Construction - Artistic Fencing	0	0.00	10.21	0.00
Well - SM-8 Building Construction - Artistic Fencing	0	0.00	10.21	0.00
Well - SM-9 Building Construction - Artistic Fencing	0	0.00	10.21	0.00
Pipeline - Site Preparation	0	0.00	10.21	0.00
Pipeline - Grading - Slurry Backfill	0	0.00	10.21	0.00
Pipeline - Grading - Installation	510	19.44	10.21	1,903.88
Pipeline - Continual Paving	0	0.00	10.21	0.00
Pipeline - Continual Pavement Striping	0	0.00	10.21	0.00
Pipeline - Final Paving	0	0.00	10.21	0.00
Pipeline - Final Pavement Striping	0	0.00	10.21	0.00
WTP - Demolition	70	2.64	10.21	258.21
WTP - Site Preparation and Grading	84	3.16	10.21	309.85
WTP - Building Construction 3	0	0.00	10.21	0.00
WTP - Building Construction 4	0	0.00	10.21	0.00
WTP - Building Construction 1	0	0.00	10.21	0.00
WTP - Building Construction 2	0	0.00	10.21	0.00
WTP - Building Construction 5	0	0.00	10.21	0.00
WTP - Building Construction 6	0	0.00	10.21	0.00
WTP - Building Construction 7	0	0.00	10.21	0.00
WTP - Architectural Coating	0	0.00	10.21	0.00
WTP - Paving	0	0.00	10.21	0.00
Well - SM-11 Grading - Well Pad	36	1.30	10.21	127.27
Well - SM-11 Building Construction - Well Equipping	0	0.00	10.21	0.00
Well - SM-11 Building Construction - Artistic Fencing	0	0.00	10.21	0.00
RW Pipeline - Site Preparation	0	0.00	10.21	0.00
RW Pipeline - Grading - Slurry Backfill	0	0.00	10.21	0.00
RW Pipeline - Grading - Installation	140	4.05	10.21	396.96
RW Pipeline - Continual Paving	0	0.00	10.21	0.00
RW Pipeline - Continual Pavement Striping	0	0.00	10.21	0.00
RW Pipeline - Final Paving	0	0.00	10.21	0.00
RW Pipeline - Final Pavement Striping	0	0.00	10.21	0.00
Total				**3,479.32**

Construction Equipment Diesel Demand

Phase	Pieces of Equipment	Equipment CO_2 (MT)	Kg CO2/Gallon	Gallons
Well - SM-10 Grading - Well Pad	2	1.25	10.21	122.31
Well - SM-8 Grading - Well Pad	2	1.25	10.21	122.31
Well - SM-9 Grading Well Pad	2	1.25	10.21	122.31
Well - SM-10 Building Construction - Well Equipping	2	4.13	10.21	404.19
Well - SM-8 Building Construction - Well Equipping	2	4.13	10.21	404.19
Well - SM-9 Building Construction - Well Equipping	2	4.13	10.21	404.19
Well - SM-10 Building Construction - Artistic Fencing	1	1.70	10.21	166.66
Well - SM-8 Building Construction - Artistic Fencing	1	1.70	10.21	166.66
Well - SM-9 Building Construction - Artistic Fencing	1	1.70	10.21	166.66
Pipeline - Site Preparation	1	1.03	10.21	101.09
Pipeline - Grading - Slurry Backfill	1	0.69	10.21	67.33
Pipeline - Grading - Installation	3	30.68	10.21	3,005.25
Pipeline - Continual Paving	2	19.30	10.21	1,890.29
Pipeline - Continual Pavement Striping	0	0.00	10.21	0.00
Pipeline - Final Paving	3	3.22	10.21	315.05
Pipeline - Final Pavement Striping	0	0.00	10.21	0.00
WTP - Demolition	5	26.35	10.21	2,580.52
WTP - Site Preparation and Grading	4	18.10	10.21	1,773.04
WTP - Building Construction 3	2	55.76	10.21	5,461.25
WTP - Building Construction 4	2	30.71	10.21	3,007.88
WTP - Building Construction 1	4	34.58	10.21	3,387.32
WTP - Building Construction 2	3	22.40	10.21	2,193.54
WTP - Building Construction 5	1	4.69	10.21	459.65
WTP - Building Construction 6	5	69.37	10.21	6,794.21
WTP - Building Construction 7	3	16.86	10.21	1,651.31
WTP - Architectural Coating	1	12.26	10.21	1,200.35
WTP - Paving	2	7.40	10.21	724.83
Well - SM-11 Grading - Well Pad	2	1.25	10.21	122.31
Well - SM-11 Building Construction - Well Equipping	2	4.13	10.21	404.81
Well - SM-11 Building Construction - Artistic Fencing	1	1.70	10.21	166.63
RW Pipeline - Site Preparation	1	0.21	10.21	20.23
RW Pipeline - Grading - Slurry Backfill	1	0.11	10.21	11.22
RW Pipeline - Grading - Installation	3	5.11	10.21	500.80
RW Pipeline - Continual Paving	2	3.22	10.21	315.12
RW Pipeline - Continual Pavement Striping	0	0.00	10.21	0.00
RW Pipeline - Final Paving	3	0.64	10.21	63.03
RW Pipeline - Final Pavement Striping	0	0.00	10.21	0.00
Total				**38,296.55**

Construction Equipment Usage

Phase	Hours of Use
Well - SM-10 Grading - Well Pad	80
Well - SM-8 Grading - Well Pad	80
Well - SM-9 Grading Well Pad	80
Well - SM-10 Building Construction - Well Equipping	125
Well - SM-8 Building Construction - Well Equipping	125
Well - SM-9 Building Construction - Well Equipping	125
Well - SM-10 Building Construction - Artistic Fencing	60
Well - SM-8 Building Construction - Artistic Fencing	60
Well - SM-9 Building Construction - Artistic Fencing	60
Pipeline - Site Preparation	40
Pipeline - Grading - Slurry Backfill	240
Pipeline - Grading - Installation	1,200
Pipeline - Continual Paving	960
Pipeline - Continual Pavement Striping	0
Pipeline - Final Paving	240
Pipeline - Final Pavement Striping	0
WTP - Demolition	1,000
WTP - Site Preparation and Grading	600
WTP - Building Construction 3	2,128
WTP - Building Construction 4	1,430
WTP - Building Construction 1	1,474
WTP - Building Construction 2	1,246
WTP - Building Construction 5	248
WTP - Building Construction 6	2,314
WTP - Building Construction 7	938
WTP - Architectural Coating	576
WTP - Paving	368
Well - SM-11 Grading - Well Pad	80
Well - SM-11 Building Construction - Well Equipping	125
Well - SM-11 Building Construction - Artistic Fencing	60
RW Pipeline - Site Preparation	130
RW Pipeline - Grading - Slurry Backfill	9
RW Pipeline - Grading - Installation	238
RW Pipeline - Continual Paving	210
RW Pipeline - Continual Pavement Striping	0
RW Pipeline - Final Paving	530
RW Pipeline - Final Pavement Striping	0
Total	**17,179**

Santa Monica Olympic Wellfield Restoration and Arcadia Treatment Plant Expar

Project Operational Energy Demand

Mobile Source Gasoline Demand

Project Facility	Vehicle MT CO_2	Kg CO2/Gallon	Gallons
General Light Industry (Project Buildings)	1.03	8.78	117.85

Mobile Source Diesel Demand

Project Facility	Vehicle MT CO_2	Kg CO2/Gallon	Gallons
General Light Industry (Project Buildings)	14.23	10.21	1,393.27

Electricity Demand

Project Consumption	kWh/Year
General Light Industry (Project Buildings)	116,550
Building Water/Wastewater	35,968
Process Electricity	4,976,000
Subtotal	**5,128,518**
Electricity Avoided	7,100,710
Total	**-1,972,192**

Natural Gas Demand

Project Facility	kBTu/Year
General Light Industry (Project Buildings)	190,050
Total	**190,050**

Appendix B

Cultural Resources Technical Report

HISTORICAL RESOURCES TECHNICAL REPORT FOR OLYMPIC WELL FIELD RESTORATION AND ARCADIA WATER TREATMENT PLANT EXPANSION PROJECT, CITY OF SANTA MONICA, CALIFORNIA

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Executive Summary

Dudek was retained by the City of Santa Monica Public Works Department, Water Resources Division to complete a historical resource technical report for the Olympic Wellfield Restoration and Arcadia Water Treatment Plant (WTP) Expansion Project (Project) located at 1228 South Bundy Drive in the City of Los Angeles, California (APN: 4263-003-270), the proposed Olympic Pipeline route, the proposed Recycled Water Pipeline route, and the Olympic Well Field well sites on Olympic Boulevard between the Centinela Avenue and 26th Street intersections. The Arcadia WTP and Olympic Well Field are over 40 years old and have not been previously evaluated for historical significance. This study includes a pedestrian survey of the Project site by a qualified architectural historian, a windshield survey of a proposed pipeline alignments, a California Historical Resources Information System (CHRIS) records search of the Project site and a 0.5-mile radius, building development and archival research, development of an appropriate historic context for the property, and evaluation of the WTP property and well site locations for historical significance and integrity in consideration of National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and City of Santa Monica Structure of Merit and Landmark designation criteria. This report was prepared in conformance with California Environmental Quality Act (CEQA) Guidelines Section 15064.5 for historical resources.

As a result of the CHRIS records search, archival research, field survey, and property significance evaluation, no historical resources were identified within the Project site. Therefore, the Arcadia WTP, Olympic Well Field well sites, and associated pipelines are not considered historical resources for the purposes of CEQA. No management recommendations are required for historical resources.

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1 Introduction

Dudek was retained by the Water Resources Division of the Public Works Department for City of Santa Monica to complete a historical resources technical report to support the California Environmental Quality Act (CEQA) documentation for the proposed Olympic Well Field Restoration and Arcadia Expansion Project (Project). This report evaluates properties within the proposed Project area that are over 40 years old and have not been previously evaluated for historical significance. This study includes a pedestrian survey of the Arcadia Water Treatment Plant (WTP) and Olympic Well Field by a qualified architectural historian, a windshield survey of a proposed pipeline alignment, a CHRIS records search, building development and archival research, development of an appropriate historic context for the properties, and evaluation of the WTP for historical significance and integrity in consideration of National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and City of Santa Monica designation criteria. This report was prepared in conformance with California Environmental Quality Act (CEQA) Guidelines Section 15064.5 for historical resources.

1.1 Project Location

The proposed Project site consists of three distinct areas: the Arcadia WTP parcel, the Olympic Well Field well sites, and the location of a new subterranean pipeline, which extends between the Olympic Well Field and the Arcadia Water Treatment Plant via public rights of way. A map of the proposed Project location is included in Figure 1 (Project Location and Regional Vicinity).

Olympic Well Field Restoration

The Olympic Well Field is located in the City of Santa Monica generally along the alignment of Olympic Boulevard south of Centinela Avenue and north of Cloverfield Boulevard. The locations for the proposed groundwater production wells SM-8 and SM-9, and the proposed groundwater injection well SM-10i, are within the public right-of-way median of Olympic Boulevard. Therefore, they are not located within a specific parcel or located at a specific street address. Rather, these proposed wells associated with the Olympic Well Field, as well as the proposed pipelines that would connect the wells, are all entirely located within the Olympic Boulevard right-of-way, which is one of the City's key east-west boulevards.

Wells SM-8 and SM-9 are located within 600 feet of the newly constructed Los Angeles County Metropolitan Transportation Authority (Metro) Division 14, Operations and Maintenance Facility, which is a 9.7-acre and 95,000 square foot facility that provides rail car maintenance services light rail associated with the Exposition (Expo) Line. The Expo Line rail tracks are within 100 feet of SM-10i and SM-8, and within 300 feet of SM-9. Well SM-8 would be located approximately 1,400 feet east of SM-10i and west of the intersection of Olympic Boulevard and Stewart Street near the Bergamot Station cultural center in the City of Santa Monica. A new 12-inch pipeline would be constructed in the median to connect SM-8 to an existing pipeline within Stewart Street. Figure 2, Wells and Proposed Water Pipeline Study Area, provides and overview of the site and immediately surrounding areas. Well SM-9 would be located approximately 1,700 feet east of SM-8 and west of the intersection of Olympic Boulevard and Centinela Avenue near the New Roads Middle School in the City of Santa Monica. SM-3 is an existing well that would be decommissioned and is located approximately 100 feet north of the proposed SM-9 location. A new 12-inch pipeline would be constructed in the median to connect the new SM-9 to the pipeline at the decommissioned SM-3. Figure 2 provides and overview of the site and immediately surrounding areas.

Well SM-10i would be located west of the intersection of Olympic Boulevard and 26th Street near the Water Garden Office Park in the City of Santa Monica. Figure 2 provides an overview of the site and immediately surrounding areas. SM-10i would connect to an existing 6-inch line to the south of the Olympic Boulevard median.

Access to these sites for both construction activities and ongoing maintenance would be via Olympic Boulevard. There is no on-site parking at the well sites, therefore, construction vehicles and City maintenance vehicles would temporarily park in the median of Olympic Boulevard or in adjacent areas for street parking. Temporary staging areas for equipment and vehicles during construction would be located adjacent to the new well sites within the medians.

Additionally, there may be a proposed groundwater injection well SM-11i constructed at the eastern end of Ishihara Park, located north of Exposition Boulevard and west of Dorchester Avenue (2909 Exposition Park). Figure 2, provides an overview of the site and immediately surrounding area. A photograph of the typical injection well, which would be similar in design and scale to the proposed SM-11i, is included in Figure 2. Access to this well location is provided by either Stewart Street or Centinela Avenue. This site is designated and zoned as Mixed-Use Creative (City of Santa Monica 2017). Construction vehicles and City maintenance vehicles would temporarily park along the roadway on a first come, first serve basis, with staging areas for construction located at Ishihara Park. A new recycled water pipeline would be constructed in the roadway along Exposition Boulevard and Stewart Street to connect the new SM-11i to the planned recycled water pipeline at the Santa Monica City Yards, located at 2500 Michigan Avenue in the City of Santa Monica. This proposed recycled water pipeline is visible on Figure 1.

Olympic Pipeline

As shown on Figure 1, the proposed Olympic Pipeline alignment would connect an existing pipeline within Nebraska Avenue to the Arcadia WTP. The pipeline alignment and associated trenching would be entirely contained within City-owned property and within publicly-owned right-of-way within the cities of Santa Monica and Los Angeles. Trenching depth is anticipated to be approximately 8 feet to the bottom of the trench in areas where it is required to avoid other utilities beneath the roadways, and approximately 4.5 to 6 feet in depth for most of the alignment.

Olympic Advanced Water Treatment Facility and Arcadia Water Treatment Plant Expansion

The Olympic AWTF and the Arcadia WTP Expansion are co-located at the Arcadia WTP. The Arcadia WTP encompasses a 209,957 square foot (4.8-acre) parcel located at 1228 South Bundy Drive in the West Los Angeles Community Plan Area of the City of Los Angeles. Figure 3, Arcadia WTP Study Area, provides an overview of the existing property and identifies the on-site buildings and immediately surrounding land uses. The site is identified as Los Angeles County Assessor's Parcel Number (APN) 426-300-3270. This location is approximately 1,250 feet east of the eastern limit of the City of Santa Monica. The facility is bound on the northwest by a northeast-southwest traveling alleyway that runs parallel to Wilshire Boulevard and connects Saltair Avenue and Bundy Drive; bound on the northeast by Saltair Avenue; bound on the southeast Texas Avenue; and bound on the southwest by Bundy Drive.

The adjacent property that would be used for staging includes APNs 426-300-3271, -3272, and -3273, which total 10,556 square feet (0.24-acre) and are zoned [Q]C2-1L-CDO (Qualified Commercial in Height District 1, Limited) within the West Wilshire Boulevard Community Design Overlay (CDO), with a General Plan land use designation of "Community Commercial". Regional access to the Arcadia WTP is via the Interstate (I) 405, which is located approximately 1-mile to the northeast, exiting the Wilshire Boulevard off-ramp.

1.2 Project Description

The proposed Project aims to enhance sustainability of the City's water supply through developing alternative water supplies and expanding local groundwater supplies to eliminate reliance on purchase of imported water supplies. The Project would accomplish this goal through the restoration of the Olympic Well Field's pumping capacity and expansion of local groundwater production, conveyance of the extracted groundwater to the Arcadia WTP via a new dedicated pipeline, and upgrades to the Arcadia WTP with an innovative concentrate treatment technology to increase production efficiency and produce additional potable water supplies while reducing concentrate discharges to the sewer system. Upon Project completion, the overall treatment capacity of the Arcadia WTP would be expanded from approximately 10 million gallons per day (mgd) or 11,300 acre-feet per year (AFY) to 13 mgd, or 14,700 AFY.

Olympic Well Field Restoration

The proposed Project involves the wellhead completion of up to 4 wells (SM-8, SM-9, SM-10i, and potentially SM-11i), and the decommissioning of 1 well (SM-3). The exploratory drilling for SM-8 and SM-9, has already occurred to determine the hydrogeological conditions and feasibility of installing the permanent wells. The exploratory drilling for the remaining wells (SM-10i and SM 11i) has not yet occurred, but will be statutorily exempt from CEQA pursuant to CEQA Guidelines Section 15262, Feasibility or Planning Studies, which allows for a project involving only feasibility or planning studies for possible future actions which the agency, board, or commission has not approved, adopted, or funded. Additionally, the drilling of exploratory wells is categorically exempt from CEQA per State CEQA Guidelines Section 15306, Information Collection (i.e., Class 6 Exemption). A Class 6 exemption allows for the basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded. Accordingly, the completion of any groundwater well, once exploration is complete, is subject to CEQA. Therefore, the environmental impacts associated with the well completion activities and the long-term operational impacts of Wells SM-8, SM-9, SM-10i, and SM-11i are evaluated in this IS/MND.

As shown in Figure 2, Wells and Proposed Recycled Water Pipeline Study Area, SM-8 and SM-9 groundwater production wells would be located west of the intersection of Olympic Boulevard and Stewart Street. Well SM-8 requires the construction of 500 linear feet of a new 12-inch pipeline within the median to connect SM-8 to an existing pipeline within Stewart Street. The well completion activities for Well SM-8 involve disturbance of approximately 7,600 square feet of soils within the Olympic Boulevard median to accommodate the 1-foot deep concrete slab. The maximum depth of excavation would not be greater than 5-feet. This would require export of approximately 285 cubic yards of soil. Construction of Well SM-8 would involve installation of new electrical equipment, aboveground piping structures, a new concrete pad for maintenance trucks, and a sodium hypochlorite storage vault.

Well SM-9 would be a groundwater production well located west of the intersection of Olympic Boulevard and Centinela Avenue. Well SM-9 requires the construction of approximately 80 linear feet of 12-inch well discharge line to connect with the existing 10-inch asbestos cement pipe (ACP) within the existing median via a 12-inch by 10-inch ductile iron reducer. Well SM-9 involves disturbance of approximately 7,200 square feet of soils within the Olympic Boulevard median to accommodate the 1-foot deep concrete slab. The maximum depth of excavation would not be greater than 5-feet. This would require export of approximately 450 cubic yards of soil. Construction

of Well SM-9 would involve installation of a new electrical equipment, aboveground piping structures, and a concrete pad for maintenance trucks. There is an existing electrical vault and sodium hypochlorite storage vault, which would be repurposed and protected in place.

As shown in Figure 2, Well SM-3 is an existing production well located approximately 100 feet north of the proposed Well SM-9 location; SM-3 would be decommissioned. This process involves the abandonment of the groundwater well in accordance with California Department of Water Resources (DWR) Well Standards regulations and Bulletin 74-81 that governs well abandonment requirements, including the removal of all material from the well, removal of the well casing and subterranean pumping equipment, and sealing the well. The existing vault, concrete/access hatch, and concrete slab would remain as-is.

Injection Wells SM-10i and SM-11i would recharge the Olympic Well Field with purified water from the City's SWIP to maintain sustainable yield levels. Importantly, environmental impacts associated with the production of the water from the SWIP are covered under a separate environmental analysis pursuant to CEQA; however, the environmental impacts associated with the SM-10i and SM-11i well completion activities and long-term operations of the injection well are evaluated in this IS/MND.

As shown in Figure 2, the groundwater injection well would be located west of the intersection of Olympic Boulevard and 26th Street. The proposed Project would construct a new 6-inch diameter SM-10i injection line to connect to the existing 6-inch ductile iron pipe from the Santa Monica Urban Runoff Recycling Facility, located immediately south of the median. The well completion activities for Well SM-10i involve disturbance of approximately 7,600 square feet of soils within the Olympic Boulevard median to accommodate the 1-foot deep concrete slab. The maximum depth of excavation would not be greater than 5-feet. The well completion activities involve the construction of a subterranean pump enclosure below each at-grade pad, which would contain the well pumping equipment. This would require export of approximately 285 cubic yards of soil. The completion of the well involves construction of the well and associated electrical equipment, aboveground piping structures and fencing surrounding the aboveground structure, catch basin structure, and sodium bi-sulfate storage vault.

As shown in Figure 2, Well SM-11i would be a groundwater injection well located west of the intersection of Exposition Boulevard and Dorchester Avenue. Well SM-11i would require a new pipeline extension as SM-11i would connect to a planned recycled water pipeline extension from Santa Monica City Yards. Well SM-11i would recharge the Olympic Well Field with purified water from the City's SWIP to maintain sustainable yield levels. This would require export of approximately 285 cubic yards of soil. The well completion activities involve the construction of an aboveground pump enclosure below each at-grade pad, which would contain the well pumping equipment. The maximum depth of excavation would not be greater than 5-feet. Additionally, the construction activities involve new aboveground piping installation and fencing surrounding the aboveground structure. The installation of Well SM-11i could result in the removal of up to nine trees in Ishihara Park.

A new recycled water pipeline would be constructed in the roadway along Exposition Boulevard and Stewart Street to connect the new SM-11i to the planned recycled water pipeline at the Santa Monica City Yards, approved as part of the Santa Monica City Yards EIR (SCH No. 2017111053). Approximately 1,500 linear feet of recycled water pipeline would be constructed within the public right-of-way. The depth of disturbance for this Project component would be from approximately 4.5 feet to 6 feet. As a worst-case assumption, assuming no use of excavated soils for backfill, an estimated 1,110 cubic yards of soil may be exported for disposal at a landfill.

Upon completion, all production wells pumping equipment would be enclosed in an above-ground decorative fenced structure, which would include a slab at grade.

Olympic Pipeline

As previously discussed, the proposed Project would construct the Olympic Pipeline from the Olympic Well Field to the Arcadia WTP in order to separate Olympic Well Field contaminated groundwater from the Charnock Well Field groundwater for separate treatment at the Arcadia WTP. The anticipated alignment of the pipeline is described in Section 2.2.2 above. It should be noted this does not include the lateral pipeline connections that are part of the injection and production wells.

Approximately 6,565 linear feet of 16-inch transmission mainline would be constructed, with portions located both within the cities of Los Angeles and Santa Monica. Trenching within the public right-of-way would require approximately 4.5-feet wide open trenching through the length of the streets, with the possibility of horizontal directional drilling or jack and bore construction, which allow for subterranean pipeline construction, at the intersections to minimize traffic disruptions during construction. The maximum depth for this Project component at some areas would go under an existing utility at about 8 feet to the bottom of trench. Other than those isolated areas the depth varies anywhere from 4.5 feet to 6 feet. It is anticipated that approximately 100 to 200 feet of pipeline could be constructed per day, although the ultimate duration of construction would depend on the site-specific conditions, including location and depth of other utilities within the alignment.

After placement of the pipeline, at least half of the trench would require imported sand bedding surrounding the pipeline and sand-cement slurry may be used in areas of shallow overcrossings for backfill. Otherwise, the excavated soils would be used to the extent feasible as backfill. As a worst-case assumption, assuming no use of excavated soils for backfill, an estimated 4,075 cubic yards of soil may be exported for disposal at a landfill.

Excavation equipment would straddle the trench and deposit spoil material into trucks for storage outside the roadway or temporarily stockpiled within the closed traffic lane. The 16-inch pipe would be staged along the pipeline alignment, typically on the shoulder of the road and outside the trench excavation path. Excavation, trenching, and backfill technical specifications would include requirements to backfill and/or plate open excavations. Daily set-up and break-down activities would include spot street cleaning, removing barricades, plating/covering the open trench, and removing equipment from the roadway.

During construction, lane closures, detours, and flag-men to assist vehicles and pedestrians in the vicinity of active trenching operations would be utilized, as required through mitigation set forth in Section 3.17, Transportation of this IS/MND. At the completion of trenching operations, the affected roadway would be capped and paved in accordance with City of Santa Monica and City of Los Angeles standards and requirements.

Existing subterranean utilities that are anticipated to be in the vicinity of the Olympic Pipeline alignment include the following:

- ATT Distribution
- LA Metro
- City of Los Angeles Traffic
- Los Angeles Department of Water and Power (LADWP)
- Level 3 Communications

- Verizon / MCI
- Crown Castle
- SoCal Gas
- City of Santa Monica, Water, Sewer, Storm
- Spectrum
- SCE
- Frontier / MPower Communications
- Zayo Fiber
- Metropolitan Water District

Arcadia Water Treatment Plant Demolition

The Arcadia WTP Demolition and Staging Plan describes the existing buildings and other areas that would be demolished to accommodate the proposed Project, which include the following:

- Concrete driveway to Saltair Avenue, grass area near driveway, and removal of 8 trees
- Grassy area adjacent to Bundy Drive
- Equipment removal from the Decarbonator Building
- Equipment removal from the Washwater Recovery Tank
- Maintenance Building
- Former Chlorination Building

Olympic Advanced Water Treatment Facility

The Olympic Pipeline would deliver water from the Olympic Well Field to the new Olympic AWTF, which would be located at the Arcadia WTP site. The Olympic AWTF would remove 1,4-Dioxane, 1,2,3-TCP, TCE, and PCE contamination from the Olympic Well Field water. The proposed AWTF treatment train consists of the ultraviolet light with hydrogen peroxide advanced oxidation process (UV/H_2O_2 AOP or UV AOP) followed by a two-stage granular activated carbon (GAC) system. The treated water from the UV AOP + GAC would be blended with the Arcadia WTP's existing reverse osmosis (RO) system feed water for softening, or it could be blended with the existing RO concentrate stream for treatment through the proposed concentrate treatment processes described below. With the Olympic AWTF and increased production efficiency (90-92% recovery) at the Arcadia WTP (see discussion below), approximately 2,900 acre-feet/yr of treated water would be produced from the 3,200 acre-feet/yr extracted from the Olympic Well Field. The AWTF would provide high-quality drinking water that meets current regulatory standards, and through consultation with the SWRCB, the City is targeting to meet future anticipated regulatory standards.

The Olympic AWTF would consist of the following:

- Pretreatment Filtration
  - New contact tank for the Olympic Well Field. The contact tank will replace an existing storage facility
  - Two existing greensand pressure filters repurposed for pretreatment filtration of the Olympic Well Field groundwater upstream of the UV AOP system

- UV/H2O2 AOP
  - Two new UV AOP trains, each with a total treatment capacity of 3.6 mgd
  - New hydrogen peroxide storage and feed facility
- GAC System
  - Three lead-lag GAC systems (total of 6 GAC vessels) using liquid phase catalytic carbon for hydrogen peroxide quenching and to provide a secondary treatment barrier for other potential VOCs that may be present

Arcadia Water Treatment Plant Expansion

To support development of alternative water supplies and restoration of the Olympic Well Field, treatment capacity expansion and plant upgrades are required at the Arcadia WTP.

As previously described, the Arcadia WTP is currently capable of treating up to approximately 11,300 acre-feet/yr (10 mgd) and produce 9,900 acre-feet/yr (8.9 mgd) of treated water, which translates to an approximately 82% recovery or efficiency. The proposed expansion and addition of new technologies to increase production efficiency at the Arcadia WTP would increase its treatment capacity to approximately 14,700 acre-feet/yr (13 mgd) and produce 13,400 acre-feet/yr (12 mgd) of treated water, which translates to an approximately 92% recovery or production efficiency.

The existing three-stage RO system at Arcadia WTP is designed with a recovery range between 70% and 80% for operational flexibility. However, the RO system is currently operating at 83% and the RO membranes were replaced in the first quarter of 2018. To optimize treatment performance and overall recovery, the existing RO system recovery may be reduced to 70 to 75 percent to leverage the CCRO system's capabilities and achieve an overall membrane system recovery of 90 percent or greater. Reducing the recovery and/or flux of the existing RO system may reduce clean-in-place (CIP) frequencies and increase membrane life.

In the existing RO system at the Arcadia WTP, a constant stream of concentrate discharge is sent directly to the sewer, with no water recovery from this flow. CCRO would use RO concentrate streams to increase recovery and efficiency of the RO system. CCRO sends its permeate flow back to the feed stream of the CCRO system to blend with incoming RO concentrate feed water. This ensures that the recoverable water in the concentrate flow is retrieved and not sent directly to waste. The increase in concentration of dissolved solids and other contaminants is managed by periodically flushing the concentrated flow to waste and feeding the RO membranes with raw water before clogging can occur. This ensures much higher recovery rates than traditional RO, which can reach approximately 83 percent versus CCRO alone, which can attain 98 percent recovery rates (City of Santa Monica 2018b).

The new CCRO system would be housed in a pre-engineered structure on the south side of the existing RO building and would require pipeline and electrical upgrades throughout the system. The new CCRO system would be capable of: (1) treating RO concentrate from the existing primary RO system, and (2) blending greensand filtrate + RO concentrate from the existing primary RO system. The CCRO technology is estimated to produce 1,200 acre-feet/yr on average from Arcadia WTP's existing concentrate waste stream that is discharged into the sewer. The CCRO system includes:

- Two new CCRO feed equalization tanks (12-ft diameter and 16-ft tall each tank) to provide approximately 15 minutes of storage for the CCRO system.
- Two new CCRO skids and high-pressure pumps, each with a permeate production capacity of 734 gpm at 71% CCRO recovery, which equates to a total primary RO + CCRO system recovery of approximately 92%.
- New sulfuric acid storage and feed facility to support the CCRO system (one new 8-ft diameter and 10-ft tall sulfuric acid storage tank).

Other upgraded/expanded ancillary facilities (e.g., pumps, blowers, cartridge filters, etc.) would be constructed at the Arcadia WTP to expand the overall treatment capacity to accommodate increased groundwater production from Olympic Well Field and additional production from new technologies (e.g., CCRO). The overall intent is to operate all four existing RO trains in duty mode, rather than the current three duty and one standby configuration, to increase overall online factor of the Arcadia WTP.

The hydraulic treatment capacity expansion enhancement of the Arcadia WTP would consist of the following:

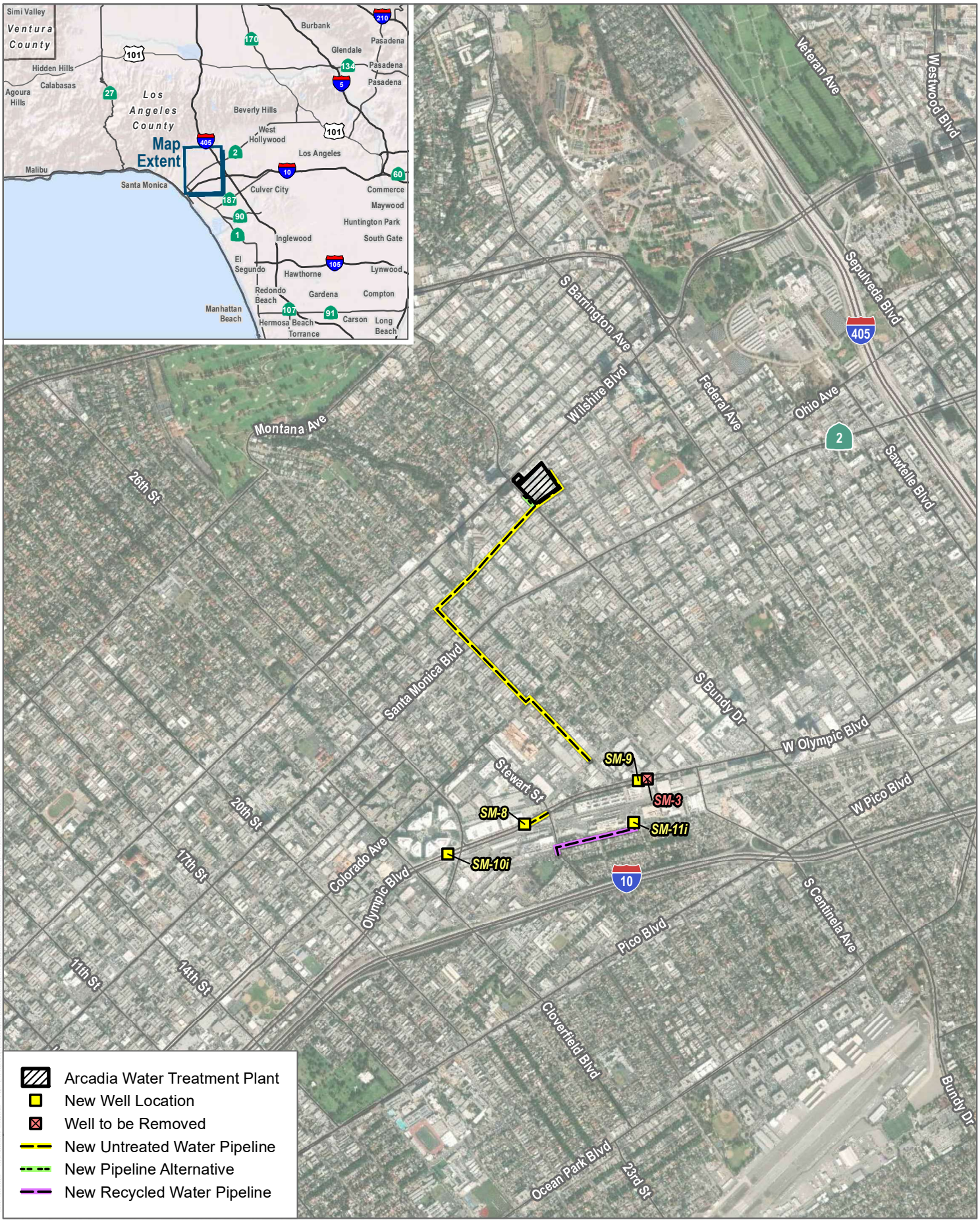
- Replace existing greensand filtration feed pumps (or Contact Tank Pumps) to increase hydraulic pumping capacity. Three new vertical diffusion vane pumps (2 duty and one standby), each with a rated capacity of 4,550 gpm at 60 ft of head and equipped with variable frequency drives
- Reconfigure existing greensand filter piping to where four existing greensand filters would serve the existing primary RO system and the remaining two existing greensand filters would serve the new Olympic AWTF
- Improve backwash handling capability through either 1) modify existing inclined plate separator piping manifold and drain line or 2) provide a new bypass line around the inclined plate separator to send greensand filter backwash waste directly to the sewer
- Replace existing RO Low Pressure Transfer Pumps to increase hydraulic pumping capacity to serve four duty primary RO trains at the Arcadia WTP. Three new vertical diffusion vane pumps (2 duty and one standby), each with a rated capacity of 4,500 gpm at 100 ft of head and equipped with variable frequency drives
- Add new cartridge filter with a design flow of 1,900 at a loading rate of approximately 3.3 gpm per 10-inch equivalent length
- Piping and hydraulic improvements to incorporate new CCRO skids to increase overall production efficiency (>90%) at the Arcadia WTP
- Ability to operate all four existing RO skids in duty mode when CCRO is offline. With all four RO skids in operation, each skid is estimated to produce approximately 1,480 gpm at 82% recovery
- Replace the existing decarbonation towers with two new packed column air stripping towers. The new packed column air stripping towers will be designed for VOC removal in addition to removing carbon dioxide to increase pH. Each new packed column air stripping tower will be designed to treat approximately 3,755 gpm and have a blower capacity of 15,340 standard cubic feet per minute. Associated off-gas duct work to the vapor phase GAC would also be replaced
- Retrofit existing sodium bisulfite chemical storage and feed system for liquid ammonium sulfate service
- Upgrade and/or expand chemical storage and feed facilities to support increased water production at the Arcadia WTP. The chemical storage and feed facilities include sodium hypochlorite, sulfuric acid, sodium hydroxide, antiscalant (or also known as threshold inhibitor), and sodium bisulfite

- Add a new brine storage tank (approximately 40,000 gallons) and pump station (3 pumps, 2 duty and 1 standby, with each pump rated for 750 gpm at 100-ft of head) to decouple the existing RO system from the concentrate discharge pipeline

Plant-wide improvements to support the treatment capacity expansion and production efficiency include, but may not be limited to site work, yard piping, and electrical service. Other site improvements include the construction of one new electric vehicle charging station for the operation of the City's vehicle fleet.

1.3 Project Personnel

This report and associated property evaluation was prepared by Dudek Architectural Historian Kate Kaiser, MSHP, and Dudek Archaeologist Adriane Gusick, BA. The report was reviewed for quality assurance/quality control by Dudek Principal Architectural Historian Samantha Murray, MA. All authors meet the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) for architectural history (see Appendix A, Preparers' Qualifications, for resumes).



SOURCE: Esri and Digital Globe 2019; Open street Map 2019

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location Map

Olympic Well field Restoration and Arcadia Water Treatment Plant Expansion Project

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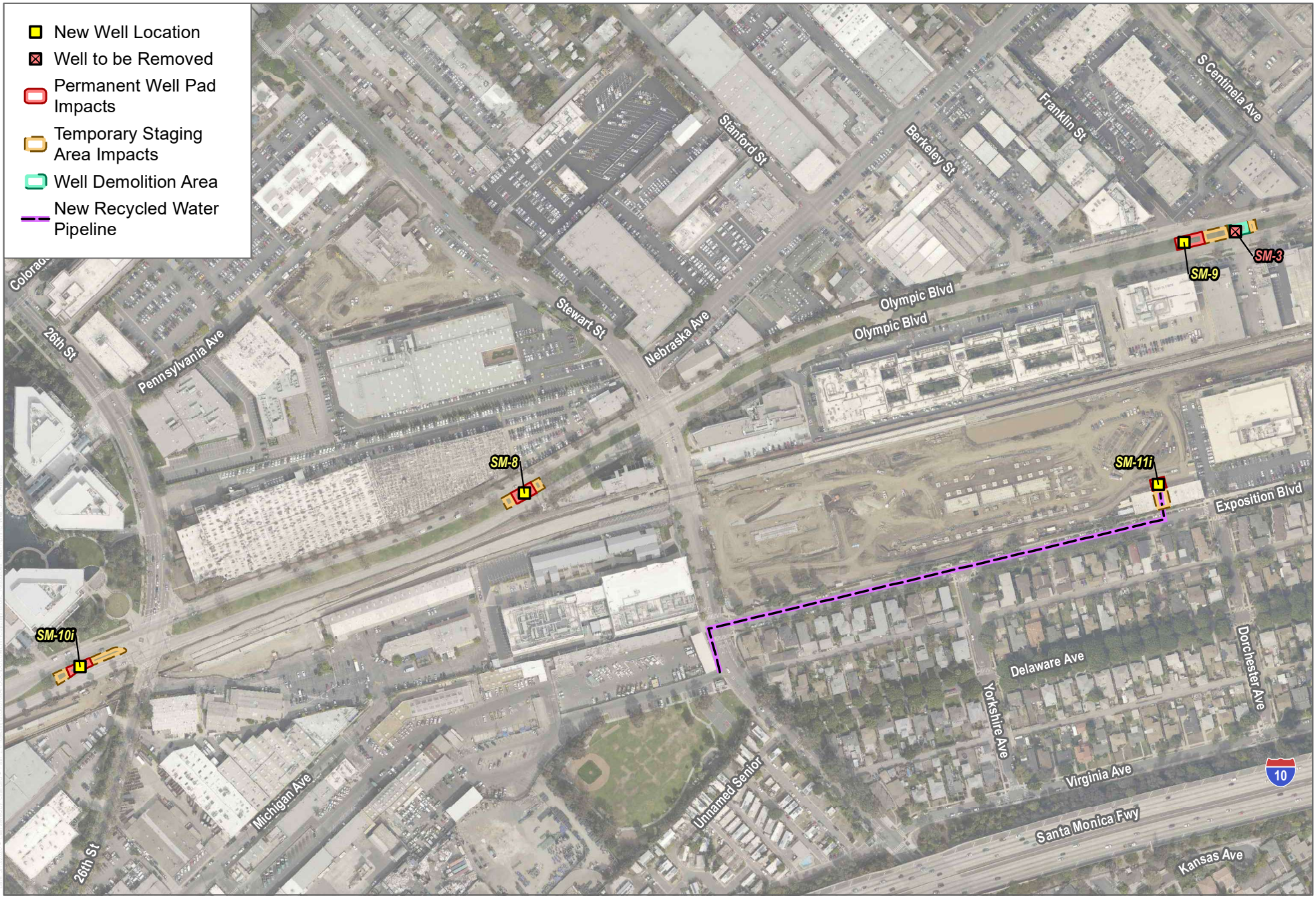

SOURCE: Esri and Digital Globe 2019; Open street Map 2019

DUDEK

FIGURE 2

Wells and Proposed Recycled Water Pipeline Study Area

Olympic Well field Restoration and Arcadia Water Treatment Plant Expansion Project

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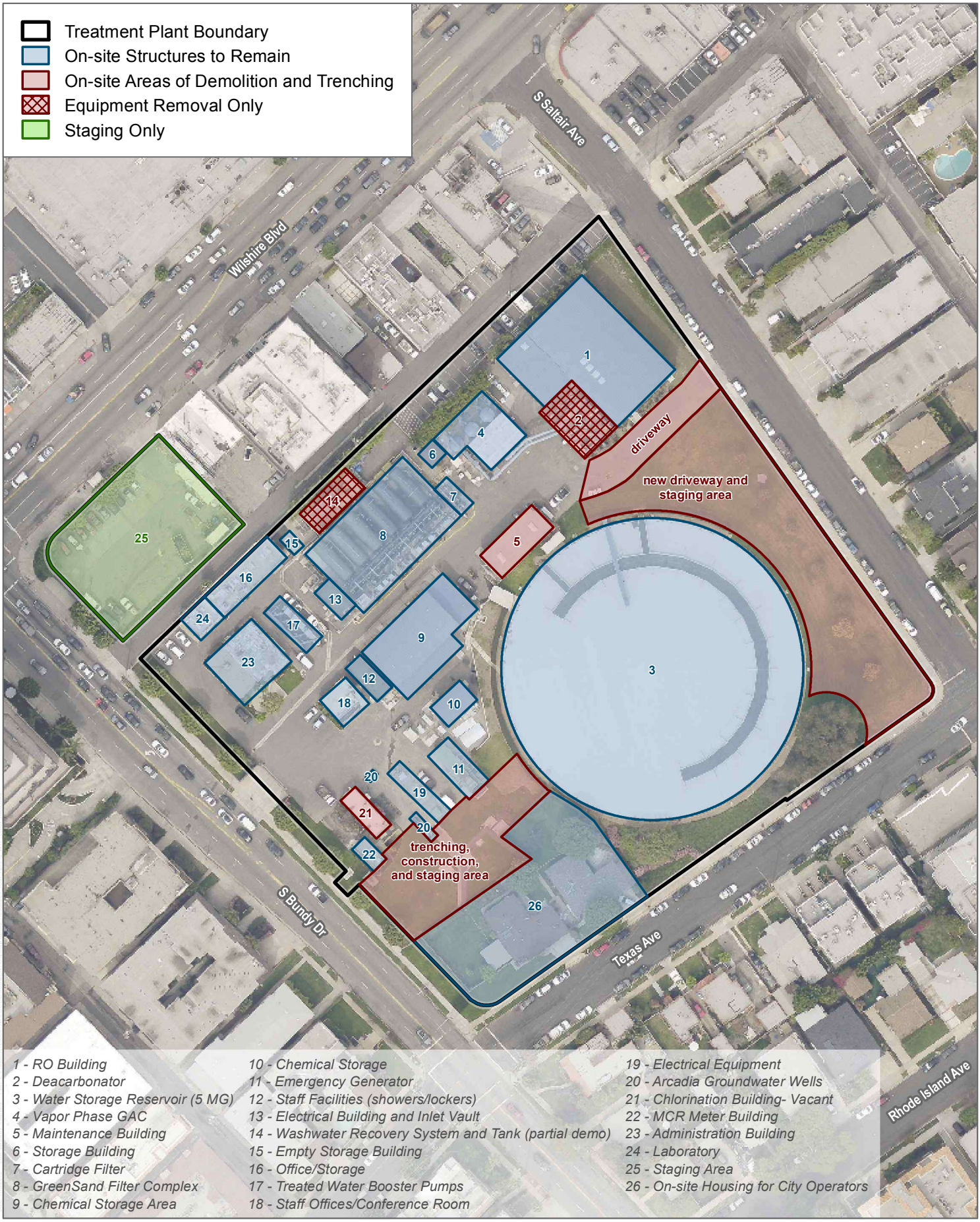

SOURCE: Esri and Digital Globe 2019; Open street Map 2019

DUDEK

0 50 100 Feet

FIGURE 3

Arcadia WTP Study Area

Olympic Well field Restoration and Arcadia Water Treatment Plant Expansion Project

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1.4 Regulatory Setting

Federal

National Register of Historic Places

While there is no federal nexus for this Project, resources were evaluated in consideration of NRHP designation criteria. The NRHP is the United States' official list of districts, sites, buildings, structures, and objects worthy of preservation. Overseen by the National Park Service, under the U.S. Department of the Interior, the NRHP was authorized under the National Historic Preservation Act, as amended. Its listings encompass all National Historic Landmarks, as well as historic areas administered by the National Park Service.

NRHP guidelines for the evaluation of historic significance were developed to be flexible and to recognize the accomplishments of all who have made significant contributions to the nation's history and heritage. Its criteria are designed to guide state and local governments, federal agencies, and others in evaluating potential entries in the NRHP. For a property to be listed in or determined eligible for listing, it must be demonstrated to possess integrity and to meet at least one of the following criteria:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
B. That are associated with the lives of persons significant in our past; or
C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
D. That have yielded, or may be likely to yield, information important in prehistory or history.

Integrity is defined in NRHP guidance, "How to Apply the National Register Criteria," as "the ability of a property to convey its significance. To be listed in the NRHP, a property must not only be shown to be significant under the NRHP criteria, but it also must have integrity" (NPS 1990). NRHP guidance further asserts that properties be completed at least 50 years ago to be considered for eligibility. Properties completed fewer than 50 years before evaluation must be proven to be "exceptionally important" (criteria consideration to be considered for listing.

State

California Register of Historical Resources

In California, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code Section 5020.1(j)). In 1992, the California legislature established the CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change"

(California Public Resources Code Section 5024.1(a)). The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing in the NRHP, enumerated below. According to California Public Resources Code Section 5024.1(c)(1–4), a resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

(2) Is associated with the lives of persons important in our past.

(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

(4) Has yielded, or may be likely to yield, information important in prehistory or history.

In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see 14 CCR 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- California Public Resources Code Section 21083.2(g) defines "unique archaeological resource."
- California Public Resources Code Section 21084.1 and CEQA Guidelines Section 15064.5(a) define "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource." It also defines the circumstances when a project would materially impair the significance of an historical resource.
- California Public Resources Code Section 21074(a) defines "tribal cultural resources."
- California Public Resources Code Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
- California Public Resources Code Sections 21083.2(b)-(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

More specifically, under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(b).) If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources or identified as significant in a historical resources survey (meeting the requirements of California Public Resources Code Section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5(b)(1); California Public Resources Code Section 5020.1(q)). In turn, CEQA Guidelines section 15064.5(b)(2) states the significance of an historical resource is materially impaired when a project:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register of Historical Resources; or
2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA.

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (California Public Resources Code Section 21083.2[a], [b], and [c]).

California Public Resources Code Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Impacts to non-unique archaeological resources are generally not considered a significant environmental impact (California Public Resources Code section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a non-unique archaeological resource qualifies as tribal cultural resource (California Public Resources Code Section 21074(c), 21083.2(h)), further consideration of significant impacts is required. CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Public Resources Code Section 5097.98.

Local

Although the Project site is located within the City of Los Angeles, the WTP is owned and operated by the City of Santa Monica. As such, City of Santa Monica designation criteria will be addressed in consideration of local eligibility.

City of Santa Monica Municipal Code – Chapter 9.56 Landmarks and Historic Districts

9.56.080 Structure of Merit Criteria

For the purposes of this Chapter, an improvement may be designated a Structure of Merit if the Landmarks Commission determines that it merits official recognition because it has one of the following characteristics:

A. The structure has been identified in the City's Historic Resources Inventory.
B. The structure is a minimum of 50 years of age and meets one of the following criteria:
    1. The structure is a unique or rare example of an architectural design, detail or historical type.
    2. The structure is representative of a style in the City that is no longer prevalent.
    3. The structure contributes to a potential Historic District. (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015)

9.56.100 Landmark or Historic District Designation Criteria

A. For purposes of this Chapter, the Landmarks Commission may approve the landmark designation of a structure, improvement, natural feature or an object if it finds that it meets one or more of the following criteria:
    1. It exemplifies, symbolizes, or manifests elements of the cultural, social, economic, political or architectural history of the City.
    2. It has aesthetic or artistic interest or value, or other noteworthy interest or value.
    3. It is identified with historic personages or with important events in local, state or national history.
    4. It embodies distinguishing architectural characteristics valuable to a study of a period, style, method of construction, or the use of indigenous materials or craftsmanship, or is a unique or rare example of an architectural design, detail or historical type valuable to such a study.
    5. It is a significant or a representative example of the work or product of a notable builder, designer or architect.

6. It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City.

B. For purposes of this Chapter, a geographic area or a noncontiguous grouping of thematically related properties may be designated a Historic District if the City Council finds that such area meets one of the following criteria:

1. Any of the criteria identified in Section 9.56.100(A)(1) through (6).
2. It is a noncontiguous grouping of thematically related properties or a definable area possessing a concentration of historic, scenic or thematic sites, which contribute to each other and are unified aesthetically by plan, physical development or architectural quality.
3. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning.
4. It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City. (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015; amended by Ord. No. 2520CCS § 56, adopted June 14, 2016)

City of Santa Monica Municipal Code – Chapter 9.25 Demolition and Relocation

The City shall not approve the demolition of any building or structure unless the applicant has complied with all of the following conditions:

A. A removal permit has been granted by the Rent Control Board, when required.

B. For multi-unit dwelling structures or structures within a Neighborhood Conservation Overlay District, the final permit to commence construction for a replacement project has been issued, or the building or structure is exempt from this requirement pursuant to Section 9.25.020. A property maintenance plan has been approved in writing by the Director.

C. Prior to filing an application for a demolition permit, a notice of intent to demolish in a form provided by the Director has been prominently posted on the property.

D. A Certificate of Appropriateness or Economic Hardship has been approved by the Landmarks Commission or City Council on appeal, for demolition of any City-Designated Historic Resource.

E. In addition to any other requirements imposed by this Section, no demolition of buildings or structures, the original permit for which was issued more than 40 years before the date of filing of the demolition permit application, shall be permitted unless the following requirements have been met:

1. Within 7 days of receipt of all filing materials for a demolition permit for such structures, the City shall transmit a copy of such application to each member of the Landmarks Commission. Filing materials shall consist of a completed application form, site plan, 8 copies of a photograph of the building, and photo verification that the property has been posted with a notice of intent to demolish.

2. If no application for the designation of a structure of merit, a landmark or a historic district is filed in accordance with Chapter 9.56 within 75 days from receipt of a complete application for demolition, demolition may be approved subject to compliance with all other legal requirements, including this Section.

3. If an application for a landmark, a historic district, or a structure of merit is filed in accordance with Chapter 9.56 within 75 days from receipt of a complete application for demolition, no demolition permit may be issued until after a final determination is made by the Landmarks Commission, or the City Council on appeal, on the

landmark, historic district, or structure of merit designation application. The application shall be processed in accordance with the procedures set forth in Chapter 9.56.

a. The 75-day period can be extended by the property owner by written consent.

b. No landmark, structure of merit, or historic district application can be filed after the 75-day period has expired unless the demolition permit expires.

F. No application subject to review by the Planning Commission, Architectural Review Board, or Zoning Administrator, shall be accepted for filing unless the applicant has completed the requirements of subsection E, as applicable. Notwithstanding the foregoing, the City shall accept applications for 100% Affordable Housing Projects that involve the demolition of existing buildings that: (a) do not appear on the City's Historic Resources Inventory so long as a demolition permit application(s) for such building(s) is filed prior to or concurrently with the application for the 100% Affordable Housing Project; or (b) involve the demolition of existing buildings that are on the City's Historic Resources Inventory so long as a demolition permit application(s) for such building(s) has been filed and the Landmarks Commission has held its preliminary review hearing regarding such building(s) and has decided not to move to a full designation hearing for such building(s). (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015; amended by Ord. No. 2551CCS § 3, adopted August 8, 2017 ; Ord. No. 2606CCS § 10, adopted April 9, 2019)

2 Background Research

2.1 CHRIS Records Search

On October 3, 2019, Dudek completed a search of the CHRIS at the South Central Coastal Information Center (SCCIC), located on the campus of California State University, Fullerton. The records search included the Project site and a 0.5-mile records search area. This search included their collections of mapped prehistoric and historic archaeological resources and historic built-environment resources, Department of Parks and Recreation Site Records, technical reports, archival resources, and ethnographic references. Additional consulted sources include historical maps of the study area, the NRHP, the CRHR, the California Historic Property Data File, the lists of California State Historical Landmarks, California Points of Historical Interest, and the Archaeological Determinations of Eligibility. The results of the records search are presented in Confidential Appendix B.

Previously Conducted Cultural Resources Studies

The CHRIS records search results indicate that 64 previous cultural resources studies have been conducted within 0.5-mile of the Project site between 1976 and 2017. Of these, nine studies overlap or are adjacent to the Project site. Table 1, below, summarizes all 64 previous cultural resources studies followed by a brief summary of the studies that overlap or are adjacent to the Project site.

Table 1. Previous Cultural Resources Investigations Within 0.5-Mile of the Project Site

SCCIC Report Number	Author	Year	Report Title	Proximity to Project Site
LA-00191	Howard, V. and M. Raab	1988	Archaeological Monitoring of the Landmark II Project, Los Angeles, California	Outside
LA-00676	Singer, C.	1980	Cultural Resource Survey and Impact Assessment for Tentative Tract No. 39621 in the City and County of Los Angeles, California	Outside
LA-00704	Clewlow, C. and D. Whitley	1976	An Assessment of the Impact of the University High School Construction Project on Archaeological Site LAN-382, Los Angeles, Los Angeles County, California	Outside
LA-00711	Singer, C.	1980	Cultural Resource Survey and Impact Assessment for Tentative Tract No. 39619, At the Corner of Goshen and Westgate Avenues, in West Los Angeles, California	Outside
LA-00947	Dillon, B.	1981	An Archaeological Resource Survey and Impact Assessment of Tentative Tract #41395, Lots 13 & 11 of Block 56 of the Artesian Tract at 1441-1445 Barry Avenue, Los Angeles, California	Outside
LA-01121	Dillon, B.	1981	An Archaeological Resource Survey and Impact Assessment of Tentative Tract #28355 in the City of Los Angeles, California	Outside
LA-01179	Rechtman, R. and R. Aycock	1982	An Archaeological Resource Survey and Impact Assessment of Tract 14500 Los Angeles County	Outside

Table 1. Previous Cultural Resources Investigations Within 0.5-Mile of the Project Site

SCCIC Report Number	Author	Year	Report Title	Proximity to Project Site
LA-01371	Singer, C.	1984	Archaeological Monitoring at 1234 Granville, West Los Angeles	Outside
LA-01721	Van Horn, D.	1989	Archaeological Test Excavation at 1327 Westgate Avenue, Los Angeles, California	Outside
LA-01975	Neuenschwander, N.	1989	Cultural Resource Survey and Clearance Report for the Proposed American Telephone and Telegraph Los Angeles Airport Central Office to the Santa Monica Central Office Fiberoptic Communication Route	Outside
LA-02038	Singer, C. and J. Atwood	1990	Cultural Resources Survey and Impact Assessment for the Palisades Street Maintenance Yard in West Los Angeles, Los Angeles County, California	Outside
LA-02256	Atwood, J.	1991	City of Los Angeles Palisades Street Maintenance Yard Examination	Outside
LA-02377	Van Horn, D.	1990	Phase I Cultural Resource Study: Lot 1, Tract 2196 ("the Artesian Block") in the City of Los Angeles	Outside
LA-03729	Department of Public Works	1977	Historic Property Survey Bundy Drive - North of Wilshire Boulevard to South of La Grange Avenue	Overlaps
LA-03857	Bonner, W.	1998	Cultural Resources Monitoring L.A. Cellular Site C5552.2, Venice, California	Outside
LA-03872	McLean, D.	1998	Archaeological Assessment for Pacific Bell Mobile Services, Telecommunications Facility LA-268-02, 2419 Michigan Ave., City of Santa Monica, Los Angeles County, CA.	Outside
LA-04492	Maki, M.	1999	Negative Phase I Archaeological Survey and Impact Assessment of 9.45 Acres for the Virginia Avenue Park Expansion Project, Santa Monica, Los Angeles County, California	Outside
LA-04554	Duke, C.	1999	Cultural Resource Assessment for Pacific Bell Mobile Services Facility LA 450-02, in the County of Los Angeles, California	Outside
LA-05031	Lapin, P.	2000	Cultural Resource Assessment for Pacific Bell Wireless Facility LA 910-01, County of Los Angeles, CA	Outside
LA-05036	Lapin, P.	2000	Cultural Resource Assessment for AT&T Wireless Facility Number R328, County of Los Angeles, CA	Outside
LA-05037	Lapin, P.	2000	Cultural Resource Assessment for AT&T Wireless Facility Number R326.1, County of Los Angeles, CA	Outside
LA-05732	Maki, M.	2002	1517 Franklin Street Housing Project, Santa Monica	Outside
LA-06126	Maki, M.	2002	Acquisition of Two Parcels for the Future Demolition of Two Commercial Structures Located at 2601-2615 Santa Monica Boulevard Santa Monica	Outside
LA-06480	Duke, C.	2001	Cultural Resource Assessment for AT&T Fixed Wireless Services Facility Number LA_043_A, County of Los Angeles, California	Outside

Table 1. Previous Cultural Resources Investigations Within 0.5-Mile of the Project Site

SCCIC Report Number	Author	Year	Report Title	Proximity to Project Site
LA-06498	McKenna, J.	2002	Highway Project Involving Upgrading of Intersection Within the City of Santa Monica Located Between San Vicente Blvd. (North; Ocean Park (South); 9th Street (West); and 30th Street (East)	Overlaps
LA-06505	Smith, P.	2000	Highway Project of Replacing the Existing Overhead Reflective Sign Panels In-kind With Retro-reflective Panels	Outside
LA-06506	Duke, C.	2000	Cultural Resource Assessment for AT&T Wireless Services Facility Number, R322.1 County of Los Angeles, California	Outside
LA-06524	Maki, M.	2002	2402-2410 Kansas Avenue Rehabilitation Project, Santa Monica	Outside
LA-06714	Maki, M.	2003	Relocation of Access Center & Daybreak Shelter and Creation of Westside Safe Haven Project, City of Santa Monica	Outside
LA-07106	Demcak, C.	2003	Report of Archaeological Survey for Bechtel Project #950023008B, Public Storage, Santa Monica, California	Outside
LA-07107	Allen, K.	2003	Records Search for Bechtel Project (#9500023008B), Public Storage, Santa Monica, California	Outside
LA-07178	William Self Associates	2001	Report on Cultural Resources Mitigation and Monitoring Activities Fluor/Level (3) Los Angeles Local Loops	Outside
LA-07953	Messick, P. and R. Greenwood	2006	Archaeological Monitoring Report University High School Project, Los Angeles, California	Outside
LA-08655	Romani, J.	2004	University High School Amphitheater Footing Excavation, at the Gabrieleno/Tongva Springs in West Los Angeles	Outside
LA-09414	Maki, M.	2008	2320 34th Street Renovation Project, City of Santa Monica	Outside
LA-09453	Ehringer, C. and M. Strauss	2009	Exposition Corridor Transit Project Phase 2 Archaeological Survey Report	Overlaps
LA-09487	Wlodarski, R.	2008	Negative Phase 1 Archaeological Study for the Charnock Well Field Restoration Project, City of Santa Monica, California	Overlaps
LA-10362	Tang, B.	2009	Archaeological Monitoring of Earth-Moving Activities, University High School Fire Alarm System Project, Santa Monica, Los Angeles County, California	Outside
LA-10431	Tang, B. and M. Hogan	2010	Archaeological Monitoring Report - Proposed New Gymnasium for the University High School	Outside
LA-10766	Tang, B.	2010	Final Report on Archaeological and Paleontological Resources Monitoring Geotechnical Borings for the Proposed YMCA Facility at University High School, City of Los Angeles, Los Angeles County, California	Outside

Table 1. Previous Cultural Resources Investigations Within 0.5-Mile of the Project Site

SCCIC Report Number	Author	Year	Report Title	Proximity to Project Site
LA-10987	Wlodarski, R.	2008	Record Search Results for the Proposed Bechtel Wireless Telecommunications Site EL0041 (Arya Investments) Located at 11925 Wilshire Boulevard, Los Angeles, Los Angeles County, California 92553	Outside
LA-11005	Cogstone	2010	Westside Subway Extension Historic Property Survey Report and Cultural Resources Technical Report	Adjacent
LA-11114	Foster, J.	2011	Archaeological Investigation, Partial Inventory Secondary Sewer Renewal Program Bundy and San Vicente Project	Overlaps
LA-11184	Born, M.	2008	Exposition Corridor Project Phase 2 (FTA 070320A), Request for Concurrence—Detailed Reconnaissance Survey	Overlaps
LA-11214	Hunt, K. and J. Dietler	2011	Addendum to the Cultural Resources Assessment for the Westside Family YMCA Project, West Los Angeles, Los Angeles County, California	Outside
LA-11224	Harper, C. and J. Dietler	2010	Cultural Resources Assessment for the Westside Family YMCA Project, West Los Angeles, Los Angeles County, California	Outside
LA-11305	Meiser, M.	2009	Historical Resources Evaluation Report for the Exposition Corridor Transit Project Phase 2, Los Angeles County, California	Overlaps
LA-11793	Meiser, M.	2009	Addendum to the Historical Resources Evaluation Report and Archeological Survey Report for Project Changes and Design Options the Exposition Corridor Transit Project Phase 2, Los Angeles County, California	Overlaps
LA-11994	Bonner, W.	2012	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SV11514A (SM Theatre Guild), 2627 Pico Boulevard, Santa Monica, Los Angeles County, California	Outside
LA-12085	Tang, B.	2013	Archaeological Monitoring Program University High School Soil Testing Project University High School, City of Los Angeles, Los Angeles County, California	Outside
LA-12086	Tang, B.	2012	Archaeological Monitoring Program Football Field Electrical System Installation University High School, City of Los Angeles, Los Angeles County, California	Outside
LA-12087	Tang, B.	2012	Archaeological Monitoring Program Music Department Electrical System Installation Project University High School, City of Los Angeles, Los Angeles County, California	Outside
LA-12500	Vader, M.	2013	Final Archaeological Resources Monitoring Report for the Los Angeles Department of Water and Power Scattergood-Olympic Transmission Line Project, Vault Investigations, Los Angeles County, California	Outside

Table 1. Previous Cultural Resources Investigations Within 0.5-Mile of the Project Site

SCCIC Report Number	Author	Year	Report Title	Proximity to Project Site
LA-12791	Tang, B. and M. Hogan	2013	Final Report on Archaeological Monitoring of Earth-Moving Activities, University High School Gymnasium/Locker Facility, Seismic Mitigation Increment 2, and Related Sitework City of Los Angeles, Los Angeles County, California	Outside
LA-12792	Hogan, M.	2013	Archaeological Monitoring of Earth-Moving Activities University High School Sewer Improvement Project	Outside
LA-12793	Tang, B.	2013	Archaeological Monitoring of Earth-Moving Activities Geotechnical Borings No.6 and No.7 YMCA Facility at University High School Santa Monica, Los Angeles County, California	Outside
LA-12794	Hogan, M.	2014	Archaeological Monitoring Program for the Small Learning Communities Implementation Project University High School, City of Los Angeles, Los Angeles County, California	Outside
LA-12796	Brunzell, D.	2010	Cultural Resources Assessment Mountain View Mobile Home Park, Santa Monica, Los Angeles County, California	Outside
LA-12869	Tang, B.	2016	Archaeological Monitoring of Pipe Repairs University High School, 11800 Texas Avenue Los Angeles, Los Angeles County, California	Outside
LA-13003	Ballester, D.	2015	Archaeological Monitoring Program During the Installation of a New HVAC System Near Room 127, the Music Room; Project University High School, City of Los Angeles, Los Angeles County, California	Outside
LA-13098	Teeter, W., K. Kennedy-Richardson, H. Radde, and S. Dunlap	2015	Cultural Resources Assessment for the Proposed Improvements at the Westside Family YMCA	Outside
LA-13125	Bonner, W.	1998	Cultural Resources Monitoring L.A. Cellular Site C555.2, Venice, California	Outside
LA-13169	Bonner, D.	2013	Cultural Resources Record Search and Site Visit Results for the proposed AT&T Mobility Site CLV6104 (Wilshire Blvd/Bundy Dr.) located at 12057 Wilshire Boulevard, Los Angeles, Los Angeles County, California, 90025	Outside
LA-13248	Hogan, M.	2017	Archaeological Monitoring Program, University High School Sewer Repair Project "University HS – 1017361", Within the University High School Campus, City of Santa Monica, Los Angeles County, California	Outside

LA-03729

In 1977, the City of Los Angeles Department of Public Works conducted a Historic Property Survey in support of the proposed widening of Bundy Drive. The project area consisted of a 1.1-mile section of Bundy Drive north of Wilshire Boulevard to south of La Grange Avenue. The Area of Potential Impact (API) included that project site and a bump-out of one lot on either side Bundy Drive. The project area intersects the current Project site's proposed new pipeline at Bundy Drive and Arizona Avenue. Additionally, the study's API captured the current Project's Arcadia Water Treatment Plant. No historic properties were identified within the API as a result of archival review and a reconnaissance survey. Furthermore, the study concluded there would be no significant impact on archaeological resources. The study provided no further cultural resources considerations.

LA-06498

In 2002, Caltrans District 7 prepared a Historic Property Survey Report in support of proposed improvements to 38 intersections in the City of Santa Monica. One of these proposed improvement areas overlaps the current Project site at Broadway and Berkley Street. No cultural resources were identified within the study area as a result of archival review and a pedestrian survey. The study determined that the LA-06498 project would have no adverse impacts to known cultural resources, and that there was low potential for it to uncover cultural resources.

LA-09453

In 2009, Exposition Rail Construction Authority retained EDAW, Inc. to prepare an Archaeological Survey Report in support of proposed construction of a light rail expansion from Culver City to Santa Monica. The archaeological Area of Potential Effect (APE) consisted of the 7-mile long construction footprint. The APE is adjacent to the current Project site at proposed new well location SM-10 and the southern portion of the existing pipeline. The study included a CHRIS records search, coordination with Native American tribes, a reconnaissance-level pedestrian survey, and a significance evaluation of one newly identified built environment resource within the APE. No previously recorded archaeological resources were identified within the APE as a result of the CHRIS search. Based upon results of the SLF and communications with Native American individuals, the LA-09453 project was found to be in an area considered sensitive for the presence of Native American cultural resources. The pedestrian survey identified the historic-era Santa Monica Air Line Segment within the APE. The resource was evaluated and determined eligible for listing on the NRHP and the CRHR. The Santa Monica Air Line Segment is adjacent to two well sites in the Olympic Well Field portion of the Project site. To reduce potential impacts to archaeological resources, the study recommended mitigation measures for archaeological monitoring of all ground disturbing activities within the APE, as well as standard procedures for the unanticipated discovery of archaeological resources and human remains during Project construction. To address potential adverse effect to the NRHP eligible resource, the study recommended the preparation of a Memorandum of Agreement in consultation with the State Historic Preservation Office and the preparation of a Historic Properties Treatment Plan prior to project implementation.

LA-09487

In 2009, the City of Santa Monica retained Rincon Consultants, Inc. to conduct a Phase I archaeological study in support of proposed improvements at three water service facilities. The study area included the Arcadia Water Treatment Plant, which is also the focus of the current Project. The Phase I study included a CHRIS records search, a SLF search of Native American sacred sites, and a pedestrian survey. No prehistoric or historic-era archaeological resources were identified within Arcadia Water Treatment Plant as a result of the study. Additionally, the study noted

that the water related structures on the site were constructed in the 1960s, and therefore did not qualify as historic-era built environment resources as they were less than 50 years old at the time of report submittal. The study provided standard procedures for the unanticipated discovery of cultural resources and human remains during project implementation.

LA-11005

In 2010, the Los Angeles County Metropolitan Transportation Authority retained Cogstone Resource Management Inc. to prepare a Historic Property Survey Report and a cultural resources report in support of the Westside Subway Extension Project. Included within one of the project's Build Alternatives was the proposed construction of the Wilshire/Bundy Station along the Heavy Rail Transit subway system. This proposed station is adjacent to the current Project at the Arcadia Water Treatment Plant. No historic properties or cultural resources were identified in the vicinity of the proposed Wilshire/Bundy Station as a result of the Historic Property Survey and cultural resources study. Additionally, the cultural resources study considered the area surrounding the Wilshire/Bundy Station as low potential for the presence of historic-era archaeological sites.

LA-11114

In 2011, the City of Los Angeles retained Greenwood and Associates to conduct a preliminary cultural resources study in support of the proposed removal and repair of 9,989 feet of sewer lines located in the Brentwood-Pacific Palisades and West Los Angeles Community Plans. The preliminary archaeological assessment consisted of a CHRIS records search and site visit to the one previously recorded archaeological site within the project boundary. The records search overlapped a portion of the current Project site; however, the current Project site was not investigated as part the preliminary study. The study provided standard procedures for the unanticipated discovery of cultural resources and human remains during project implementation.

LA-11184

In 2008, Exposition Metro Line Construction Authority submitted a request for State Historic Preservation Office concurrence on the Detailed Reconnaissance Survey for the Exposition Corridor Project Phase 2 Alternatives. The APE was defined as the first tier of parcels immediately adjacent to the proposed 7-mile long project footprint that extends from Culver City to Santa Monica. Portions of the current Project site, specifically new well locations SM-8 and SM-10i and the southern alignment of the existing pipeline, are adjacent to the APE. The survey included the identification and documentation of buildings within the APE that were over 50 years old. The study identified 40 historic architectural resources within the APE that had the potential to be eligible for the NRHP and that required evaluation. None of these resources are within the vicinity of the current Project site.

LA-11305

In 2008, Exposition Metro Line Construction Authority retained EDAW, Inc. to prepare a Historical Resources Evaluation report for the Exposition Corridor Project Phase 2 Alternatives in response to the 2008 Detailed Reconnaissance Survey described in the above study LA-11184. The APE was consistent with that of LA-11184. As such, the southern portion of the current Project site is adjacent to the APE. The report assessed 26 historic architectural resources within the APE to determine their eligibility for the NRHP or CRHP. The resources consisted of commercial and residential buildings and railroad bridges. Of the 26 resources evaluated, seven were determined eligible for listing on the NRHP and CRHR. None of these resources are within the vicinity of the current Project site.

LA-11793

In 2009, Exposition Metro Line Construction Authority retained EDAW to provide addendums to their cultural resources studies prepared in 2008 and 2009 (see studies LA-11305 and LA-09453 above) in response to design changes to the Exposition Corridor Project Phase 2 Alternatives. Modifications to the alignment caused no changes to the archaeological APE. Therefore, there were no changes to the results and recommendations of the 2009 Archaeological Survey Report (see study LA-09453 above). Design alternations did result in the adjustment of the architectural APE (see study LA-11305 above). The Centinela Grade Separation portion of the revised APE is adjacent to new well location SM-9, the existing pipeline, and the proposed well removal at SM-3. As a result of the revised APE, one historic architectural resource requiring evaluation was identified in the vicinity of the current Project site. The property at 3401 Exposition Boulevard was evaluated and determined not eligible for the CRHR. This property is one block south of the current Project site and will not be impacted by the current Project.

Previously Recorded Cultural Resources

The CHRIS records search results indicate that 21 cultural resources have been previously recorded within 0.5-mile of the Project site. Of these, one resource, the NRHP eligible historic-era Santa Monica Air Line railroad segment (P-19-003803) is adjacent to the proposed SM-8 and SM-10i well sites. As previously discussed in study LA-09453 above, in 2009, EDAW Inc. recorded and evaluated a longer, 6-mile segment of historic railroad right-of-way as part of the archaeological survey report prepared for the Exposition Corridor Transit Project Phase 2. The western portion of the segment extends west from Military Avenue in Culver City to 18th Street in Santa Monica. The rail joins Olympic Boulevard in Santa Monica between Stewart Street and 26th Street, overlapping the Project site. The 2008 site record describes the western portion of the segment as obscured by asphalt pavement. This resource is summarized below Table 2.

The 20 previously recorded cultural resources outside the Project site but within the 0.5-mile records search area include one prehistoric archaeological site, three historic-era archaeological sites, two multi-component sites consisting of both prehistoric and historic-era archaeological sites, and 14 historic-era built environment resources. The three prehistoric resources include a village site with reported burials, a lithic scatter, and an isolated hand stone. The historic-era archaeological sites consist of one refuse scatter and four refuse deposits with material dating from the early to mid-twentieth century. The built environment resources include a district, three school buildings, one industrial building, three commercial buildings, one mobile home park, and five single-family properties. All 21 previously recorded cultural resources within 0.5-mile of the Project site are summarized in Table 2, below.

Table 2. Previously Recorded Cultural Resources Within 0.5-Mile of the Project Site

Primary Number	Trinomial	Age and Type	NRHP/CRHR Eligibility	Description	Recorded By and Year	Proximity to Project Site
P-19-000382	CA-LAN-00382	Prehistoric: Site Historic: Site Built Environment: Educational building	Prehistoric component of the site: 3CS: Appears eligible for CRHR (2013) University High School Main Building: 2S2: Determined eligible for the NRHP (1995) Serra Springs approved California Historical Landmark No. 522 (1954)	Multi-component site consisting of the historic-era University High School campus built on a prehistoric village site located around a collection of freshwater springs known as Serra Springs. The prehistoric site was first reported circa 1925 during the construction of the University High School Campus. The prehistoric site included burials, stone and bone tools, grinding implements, and marine shell. A California Historical Landmark plaque was placed at the site of the springs in 1954, as it is a place thought to have been visited by Portola's 1769 expedition. Ground disturbance in 1974 unearthed an additional burial of Native American origin in an intact portion of the site. The main building on the campus was determined eligible for the NRHP in 1995. A 2009 through 2012 campus-wide monitoring program uncovered historic-era deposits consisting of household refuse dating from circa 1890-1960, a stone-and-mortar foundation, as well as prehistoric milling implements, flaked stone tools, and marine shell. All artifacts uncovered during monitoring were found in a disturbed context.	Porter, R. and M. Dahdul (2013); Porter, R. (2009); McAvoy, C. (1995); King, T. and C. Singer (1980); Arbuckle, J. (1980); King, T. (1969); Dillion, R. (1954); Devry, A. (1954)	Outside

Table 2. Previously Recorded Cultural Resources Within 0.5-Mile of the Project Site

Primary Number	Trinomial	Age and Type	NRHP/CRHR Eligibility	Description	Recorded By and Year	Proximity to Project Site
P-19-001063	CA-LAN-01063	Prehistoric: Site	7R: Not evaluated	Sparse surface scatter of prehistoric artifacts including milling implements, cores, flaked stone tools, and debitage. Site measured 60 meters by 25 meters and likely extended beyond recorded boundary. Site partially destroyed during development in 1984.	Singer, C. (1987); Singer, C. (1984); Singer, C. (1980)	Outside
P-19-003336	CA-LAN-03336	Historic: Site	7R: Not evaluated	Buried lens of historic-era refuse uncovered within trench during construction monitoring. Artifacts include glass bottle fragments, milled wood, brick, butchered bone, porcelain tableware and unidentified ferrous metal fragments.	Humphries, F. (2000)	Outside
P-19-003803	CA-LAN-03803	Built Environment: Railroad	3S: Appears eligible for the NRHP (2008)	A 6-mile segment of the Southern Pacific Railroad ROW historically known as the Santa Monica Air Line Segment. The track was laid in 1875 and abandoned in 1993.	Strauss, M., S. Dietler, J. Dietler, and C. Ehringer (2008)	Adjacent
P-19-004666	CA-LAN-4666	Historic: Site	7R: Not evaluated	Buried historic-era deposit consisting of brick, a brick wall segment, terra cotta pipe fragments, concrete rubble, glass shards, a folding chair, and a coffee jar. Refuse found beneath Santa Monica Air Line track and assumed related to twentieth century railroad construction and activity.	Knight, A. (2012)	Outside
P-19-004668	CA-LAN-04668	Historic: Site	7R: Not evaluated	Buried lens of historic-era refuse primarily composed of cosmetic containers dating from the 1940s-1960s. Deposit located adjacent to the Santa Monica Air Line ROW and within the vicinity of numerous buildings previously housing cosmetic companies.	Mort, J. (2012)	Outside

Table 2. Previously Recorded Cultural Resources Within 0.5-Mile of the Project Site

Primary Number	Trinomial	Age and Type	NRHP/CRHR Eligibility	Description	Recorded By and Year	Proximity to Project Site
P-19-004669	CA-LAN-04669	Prehistoric: Isolate Historic: Site	7R: Not evaluated	Multi-component site consisting of a large scatter of historic-era debris, a brick-lined well feature, a prehistoric isolated bifacial hand stone, as well as marine shell fragments and one abalone shell. The historic-era refuse was attributed to an Asian restaurant located on the parcel in the mid-twentieth century.	Knight, A. (2014)	Outside
P-19-174913	—	Built Environment: Educational building	2S2: Determined eligible for the NRHP (1995)	University High School Main building: 11800 Texas Avenue (built 1924)	McAvoy, C. (1995)	Outside
P-19-176179	—	Built Environment: Educational building	6Y: Determined ineligible for NRHP (1995)	Brockton Avenue Elementary School: 1309 Armacost Avenue (built 1922)	McAvoy, C. (1995)	Outside
P-19-188708	—	Built Environment: District	5D1: Locally designated district (1992)	Santa Monica Public Schools Thematic District (built 1924-1948)	Heumann, L. (1992)	Outside
P-19-188709	—	Built Environment: Educational building	5D3: Appears to be a contributor to a locally designated district (2007)	McKinley Grammar School: 2401 Santa Monica Boulevard (built 1922)	Jones & Stokes (2007); Heumann, L. (1992)	Outside
P-19-189451	—	Built Environment: Single-family property	1S: Listed in the NRHP (2009)	Stevens House: 23524 Malibu Colony Road (built 1968)	McAvoy, C. (2009)	Outside
P-19-189755	—	Built Environment: Single-family property	6Z: Ineligible for NRHP, CRHR, or Local listing (2008)	1706 21st Street (built 1914)	Meiser, M. (2008)	Outside

Table 2. Previously Recorded Cultural Resources Within 0.5-Mile of the Project Site

Primary Number	Trinomial	Age and Type	NRHP/CRHR Eligibility	Description	Recorded By and Year	Proximity to Project Site
P-19-189756	—	Built Environment: Single-family property	6Z: Ineligible for NRHP, CRHR, or Local listing (2008)	1625 20th Street (built 1927)	Meiser, M. (2008)	Outside
P-19-189757	—	Built Environment: Single-family property	6Z: Ineligible for NRHP, CRHR, or Local listing (2008)	2200 Wellesley Avenue (built 1925)	Meiser, M. (2008)	Outside
P-19-189767	—	Built Environment: Industrial building	6Z: Ineligible for NRHP, CRHR, or Local listing (2008)	12414 Exposition Boulevard (built 1927)	Meiser, M. (2008)	Outside
P-19-189768	—	Built Environment: Single-family property	6Z: Ineligible for NRHP, CRHR, or Local listing (2008)	11928 Exposition Boulevard (built 1939)	Meiser, M. (2008)	Outside
P-19-190059	—	Built Environment: Commercial building	6Z: Ineligible for NRHP (2012)	Morgan-Wixson Theater: 2627 Pico Boulevard (built circa 1965)	Crawford, K. (2012)	Outside
P-19-190087	—	Built Environment: Commercial building	6Z: Ineligible for NRHP (2012)	Chase Bank: 5301 Whittier Boulevard (built circa 1958)	Crawford, K. (2012)	Outside
P-19-190896	—	Built Environment: Commercial building	6Z: Ineligible for NRHP (2012)	Ralphs Grocery Store: 12057 West Wilshire Boulevard (built 1961)	Johnson, B. (2013)	Outside
P-19-190932	—	Built Environment: Multi-family property	6Z: Ineligible for NRHP, CRHR, or Local listing (2010)	Mountain View Mobile Home Park: 1930 Stewart Street (built 1948)	Brunzell, D. (2010)	Adjacent

Santa Monica Air Line Segment (P-19-003803)

The Santa Monica Air Line segment is located in the Southern Pacific Railroad (SPRR) right-of-way, and is adjacent to the proposed Project site where the SPRR right-of-way shifts from running parallel to Exposition Boulevard to running south of and parallel to Olympic Boulevard, west of Stewart Street in Santa Monica. It was recorded by EDAW in 2008 as consisting of the railroad easement and extant rail-related elements, though the report and site

record both indicate that long segments of rail, and rail-related features were damaged, missing, in disuse, or not extant. Despite this, the report concludes that the Santa Monica Air Line retains integrity of location, design, setting, feeling and association – enough to convey its significance as an NRHP-eligible linear resource. The Santa Monica Air Line was recommended eligible for the NRHP by a consensus through Section 106 process, as well as listed in the CRHR. It was found eligible under Criterion A for its significant role in the creation and development of the City of Santa Monica, and as an important commuter rail system that served to sustain a critical connection between downtown Los Angeles and Santa Monica (Ehringer and Strauss 2009).

Mountain View Mobile Home Park (P-19-190932)

This resource is located adjacent to the proposed New Recycled Water Pipeline project component, and consists of the Mountain View Mobile Home Park (originally known as the Mountain View Trailer Inn). The Mountain View Mobile Home Park encompass one permanent 1948 building, a below-ground swimming pool, 75 mobile home units (as of 2010), 105 mobile home pads, and accompanying landscaping. The 1948 building is the single permanent building, and is a flat roofed, one-story structure oriented northwest by southeast, with an aluminum addition on its southwest which has rendered the building L-shaped since 1962. The mobile home park was found to be a typical example of a mobile home park created after World War II and was determined not to be a historical resource under CEQA, as it lacked historical significance, architectural merit, and integrity. The consultant, BCR Consulting, assigned the resource a status code 6Z - found ineligible for CRHR, NRHP, or Local Designation through survey evaluation (Brunzell 2010).

2.2 Building Development and Archival Research

Background research was conducted on the Project site in an effort to establish a thorough and accurate historic context for the WTP significance evaluation, and to confirm the building development history of the property and associated parcels.

City of Santa Monica records held at Arcadia Water Treatment Plant

On September 23, 2019, Dudek visited the Arcadia WTP and reviewed records stored at the facility, detailing architectural/engineering plans and records of past projects, in order to establish dates of construction for individual buildings.

City of Los Angeles Department of Buildings and Safety

Permits for the WTP were available after 1955 from the City of Los Angeles. On September 17, 2019, Dudek Staff reviewed post-1955 permits associated with the subject property available through Los Angeles Department of Building and Safety Online Building Records.

City of Santa Monica Department of Buildings and Safety

Dudek made a records request for building permits for the subject property and the City of Santa Monica replied on September 18, 2019, reporting that the City of Santa Monica did not hold permits for the Arcadia WTP on file and that the City of Los Angeles should hold all available building permits.

Los Angeles Public Library

Dudek reviewed a number of online resources available through the Los Angeles Public Library. These tools include accessing online Sanborn Maps, online city directories, online historical photograph collections, and online historical newspaper collections.

Santa Monica Public Library

Dudek visited the Santa Monica Public Library on September 23, 2019. A reference librarian was consulted for information specific to the Arcadia WTP property and general information about municipal utilities, but there were no specific sources available. However, background information for the City of Santa Monica was found in the California Reference room. The online archival image collection and Santa Monica Evening Outlook collection was also reviewed for all photographs and newspaper articles pertaining to the City Water Department. All information obtained from the Santa Monica Public Library was used in preparation of the historic context.

Santa Monica Conservancy

On September 25, 2019, Dudek researched the historic places map application for the Arcadia WTP and the Olympic well sites, however these sites have not been previously recorded. Dudek also utilized the Santa Monica Conservancy's "History of Santa Monica" tab for a brief synopsis of 20th century Santa Monica history.

City of Santa Monica Historic Resources Inventory

On September 25, 2019, Dudek researched City of Santa Monica Historic Resources Inventory List website, hosted by the City of Santa Monica and most recently updated in 2018, in order to establish a date of construction or historic resource status code for the subject properties, however, the Arcadia WTP and the Olympic well sites have not been previously recorded.

Santa Monica History Museum

On September 17, 2019, Dudek researched the digital collections of the Santa Monica History Museum, including photographs, archival materials, histories and biographies. Dudek reached out to Licia Hurst, an archivist at the Santa Monica History Museum on September 17, 2019, seeking information about the subject properties and general information about private and municipal water companies in Santa Monica. Another outreach email was sent on September 24, 2019. Dudek has not received a response to date.

Sanborn Fire Insurance Maps

The Sanborn Fire Insurance Company (Sanborn) maps for the property were reviewed on the Los Angeles Public Library website. In addition to structural descriptions, by virtue of Sanborn maps being produced in case of fire, water facilities including equipment, capacities, and source locations for each city are also described in detail. Sanborn Maps for the City of Santa Monica were reviewed from the following years: 1891, 1895, 1902, 1909, 1918, and 1950. The maps produced for 1891, 1895, 1902, 1909, 1919, and 1950 do not show the subject property, and the 1950 map refers out to the West Los Angeles/Sawtelle District Maps. The maps, however, do give adequate reports of the private and municipal water supplies for City of Santa Monica. According to the "Report" sheet filed with the 1918 Sanborn map for Santa Monica, water for Santa Monica, Sawtelle and Beverly Hills was provided by the Santa Monica Water Company from two reservoirs supplied by six wells at the subject property, called the Arcadia Pumping Plant, and produced roughly 5 million gallons per day. According to the "New Report, 1940" sheet filed with the 1950 Sanborn map for Santa Monica, the Arcadia Pumping Plant was considered water

"in reserve" and consisted of 9 wells at the plant with electric drive pumps, with a 1 million gallon per day capacity (Sanborn 1902, 1909, 1918, 1950).

West Los Angeles/Sawtelle District Maps were reviewed for the following years: 1905, 1907, 1912, 1921, 1924, 1928, and 1944. The subject property first appears, labeled as the Arcadia Pumping Plant, in 1921. In the 1921 Sanborn Sheet, the property is called the "Arcadia Pumping Plant" and is listed as being owned by "Santa Monica Water Works." In 1921, the site contained: an L-plan pump house; a small, in-ground reservoir; four wells; a transformer; three smaller pump houses; and a 1-story dwelling (2218 S Bundy Drive). In the 1928 Sanborn map, the Arcadia Pumping Plant was updated to contain a 5 million gallon circular concrete reservoir. These structures are all in place in the 1944 Sanborn Map, and one pump house has been repurposed as a tool house and a new T-plan valve building was added (Sanborn 1924, 1928, 1944).

Historical Aerial Photographs

Historic aerial photographs of the subject property were available from Nationwide Environmental Title Research (NETR) LLC maps for the years 1947, 1952, 1964, 1967, 1972, 1980, 1989, 1995, 2003, 2004, 2005, 2009, 2010, 2012, 2014, and 2016. Additional historic aerial photographs of the subject property were available from University of California Santa Barbara (UCSB) Map and Imagery Laboratory's FrameFinder application for the years 1927, 1928, 1934, 1940, 1947, 1956, 1960, 1962, 1965, 1968, 1970, 1971, 1976, 1980, 1981, and 1983. The Arcadia Pumping Plant parcel, including 5 million gallon reservoir (3. Water Storage Reservoir), settling basin, (no longer extant), tool house (no longer extant), and pumping plant building (no longer extant appears in the earliest aerial photographs from 1927. The transformer station (19. Electrical Equipment Transformer Yard) appeared between 1940 and 1947. Major building reconfigurations occur at the Arcadia WTP between the 1956 and 1960 aerial images, when several new buildings are added to the plant, including employee houses along Texas Avenue (12035 Texas Avenue and 12041 Texas Avenue – 26. On-site Housing for City Operators), pumps (17. Booster Pumps), a Chlorination Building (21. Chlorine Building), MWD Venturi Meter (22. MWD Vault Building), meter and valve structures, garage (18. Staff Room), control building (23. Administration Building), and laboratory building (16. Office/Storage). More buildings are added between 1965 and 1967, including the water softening buildings (no longer extant), contact basin (no longer extant), regeneration pumping station (no longer extant), and salt water reservoir (no longer extant). Multiple wells, including the SM-3 well, along Olympic Boulevard appear between 1968 and 1970. A few buildings are added to the north portion of the site closer to Saltair Avenue in the 1980s and 1990s, including another garage (5. Maintenance Building), emergency generator (11. Emergency Generator), stack structure, GAC Scrubber and Chemical Feed Facility (4. Vapor Phase GAC). The surrounding neighborhood area has remained relatively unchanged since the 1990s. The last major construction activity takes place in 2009 when many of the Arcadia Plant buildings were demolished, including the original pump station building, salt-water reservoir, water softening plant, and others to make way for 10 new buildings including the RO Building (1. RO Building), Greensand Filter Complex (8. Greensand Filter Complex), and Chemical Storage Building (9. Chemical Storage Area), among others (NETR 2019; UCSB 2019).

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3 Historic Context

Although the Arcadia WTP property is located in the City of Los Angeles, it was established before the town of Sawtelle expanded to include it and before Los Angeles annexed the town of Sawtelle to form its west-most boundary. The Arcadia WTP is closely tied to the development and municipal growth of the City of Santa Monica and has been a City of Santa Monica property since 1916.

3.1 Historical Overview of the City of Santa Monica

The original town site for Santa Monica was surveyed in 1875 by Colonel Robert S. Baker and John Percival Jones. The surveyed city grid provided for north and south streets to be numbered streets and east and west streets to be named for the various states in the United States (Figure 4). Baker and Jones had formed a partnership in 1874 with the intention of promoting Santa Monica as an important transportation and industrial center that would connect to the valuable mining endeavors in Nevada and Colorado. Baker and Jones organized the Los Angeles and Independence Railroad to facilitate their vision as a shipping and commerce center, and the first wharf was constructed with the intended use as an important shipping port. Just days after the survey of Santa Monica was completed in 1875, Santa Monica held its first land auction for 2,200 people to purchase lots. However, these plans fell apart, and by 1878 the Los Angeles and Independence Railroad was sold and the wharf torn down. While its original founders' plans failed, the development market would revive in the 1880s and 1890s during the land development boom of Southern California (ARG/HRG 2018; Gabriel 2006; SMC 2019).

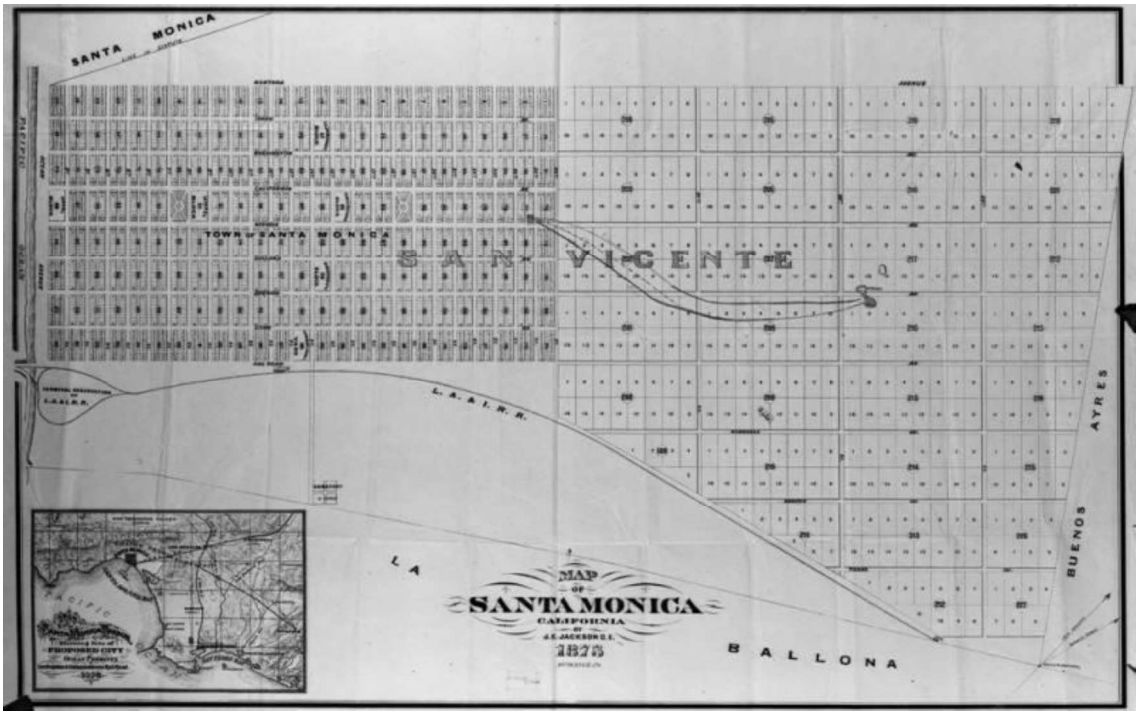


Figure 4. Tract Map, Santa Monica, 1875. (Security Pacific National Bank Collection, LAPL)

In 1886, the City of Santa Monica was incorporated. In 1887, the Atchison, Topeka, & Santa Fe Railroad re-kindled the development in Santa Monica, after a rate war with the Southern Pacific Railroad for access to Santa Monica.

This ignited another real estate boom, in time with the real estate boom of the 1880s in the greater Los Angeles area. By 1892, new visions for the City were set in motion by real estate developer Abbott Kinney and Francis Ryan. Kinney and Ryan envisioned a seaside resort that would attract tourists and wealthy locals, Ocean Park. Other developers also brought their visions to the bay, and the bathhouses and pleasure piers provided a hub for transportation of beach-goers. In 1896, electric streetcars were introduced including the Balloon Route from downtown Los Angeles, which not only brought day-trippers to Santa Monica, but also provided the means to operate as a streetcar suburb for larger metropolitan areas further east. (ARG/HRG 2018; Gabriel 2006).

These booming periods of initial development, however, required water infrastructure to support both residents and industry alike. The original Jones and Baker plans in 1875 had provided for water by means of two reservoirs, which filled from the San Vicente Springs (in future Sawtelle/West Los Angeles) and was then piped to the town. This system was quickly outpaced by the increased real estate development of the late 1880s, however by the early 1890s, the San Vicente Springs were drying up. Multiple private water company were formed in 1896-1897, to secure the water rights to springs in the Santa Monica Mountains and foothills north of Santa Monica, including Santa Monica Water Company (1897) and City Water Company (1896) (Evening Outlook 1975; Ingersoll 1908; LAH 1875).

At the turn of the twentieth century, many formerly independent communities in Southern California chose to be annexed to the City of Los Angeles, to access the cheap, municipal water promised by the Los Angeles Aqueduct. Private companies had always supplied Santa Monica with water, but were constantly suffering shortages as the groundwater sources they pumped were being used by other growing communities and lack of basic infrastructure. Arguments in Santa Monica over annexation centered mostly on water, coming to a head in the 1910s. In the end, Santa Monica chose not to be annexed and remained independent, in part because they had just the private water companies' holdings and had access to their own water sources (Evening Outlook 1975; LAT 1916a, 1916b, 1917).

Advances in roadways and railways in the first two decades of the twentieth century made Santa Monica a desirable place to live. The population of the City more than doubled in the first five years of the twentieth century and then, like much of the country, slowed during World War I. However, by the 1920s Santa Monica, like other Southern California cities, experienced a significant population boom. By 1923, approximately 1,500 people were moving into the area every month. The City had trouble keeping up with the population demands and continued subdividing land and constructing buildings as fast as possible in areas north of Montana Avenue and east of Seventh Street. The 1920s marked an important period in commercial development in the City. Large companies such as Douglas Aircraft Company set up shop in Santa Monica, providing even more incentive for people to move to the area because of the increased potential for work. The number of hotels and businesses exploded across the City, and a strong commercial core formed in the 1920s. The opportunities for employment, combined with the pleasure culture of Santa Monica, made it an excellent place to live as made evident by the population increasing to over 35,000 during the 1920s (ARG/HRG 2018; Gabriel 2006; Gebhard and Winter 2003; LAT 1923; Scott 2004; SMC 2019).

With the population reaching a critical point, and increase in industry, Santa Monica began to seek outside municipal water resources. In 1928, the City of Santa Monica became a charter member in the Metropolitan Water District, applying for water supplied from the Colorado River to other member cities, including Anaheim, Beverly Hills, Burbank, Compton, Fullerton, Glendale, Long Beach, Los Angeles, Pasadena, San Marino, Santa Ana, and Torrance. The Metropolitan Water District of Southern California organized in 1928 under the authority of the Metropolitan Water District Act (chap. 429, Calif. Statutes of 1927, p. 694). In 1941, the first water flowed through the Colorado River Aqueduct and was distributed to the participating cities, including Santa Monica (Weymouth 1939).

The Great Depression and the years leading up to World War II had a profound effect on the country as a whole, and Santa Monica was not immune to the economic downturn. During the 1930s, the City saw a significant decline in pleasure and tourism, and a proportional rise in gambling, prostitution, crime, and unemployment. Some companies were able to struggle through the 1930s, such as Merle Norman, the Santa Monica Packard Division, and Tyler Tilery. Offshore gambling on ships became popular during the Depression years, attracting gamblers via water taxi from Santa Monica's piers. However, once World War II started, businesses started to pick up again in Santa Monica, and some of the hotels were taken over by the military for use as places of rest and relaxation for military service members. The influx of military personnel helped to reinvigorate local businesses, and pleasure businesses such as theaters and bowling alleys became popular during World War II (PCR/HRG 2002; Scott 2004; SMC 2019).

The end of World War II marked the beginning of another population and commercial boom in Santa Monica, and the area thrived in the years following the war. New businesses and homes popped up all over town, and the tourism industry began to boom again. Companies such as Sears and Rand Corporation set up in Santa Monica in the late 1940s. Large-scale projects, which were impossible during the war years, became realities. One such commercial project was the closure of blocks of Third Street for a pedestrian shopping area, which laid the groundwork for the modern Third Street Promenade. Another was the Santa Monica Freeway, completed in 1966. Not all changes were positive – the Douglas Aircraft plant, which was a major industrial employer in the previous decades and World War II years, closed its plant in 1968. Additionally the Pacific Electric streetcar was discontinued and tracks removed in the 1960s (Gebhard and Winter 2003; Scott 2004; SMC 2019).

The 1970s and 1980s in Santa Monica were marked by gentrification. After years of suburbanization and economic downturn, several establishments, the preservation and revitalization of Santa Monica Mall and the Santa Monica Pier were major movements in the city. A major winter storm in 1983 destroyed over a third of the pier however, causing it to be rebuilt. The Santa Monica Mall was redeveloped into the Santa Monica Promenade, completed in 1989 as a shopping center. The 1990s saw the attraction of major corporations MGM, Sony, and Symantec to Santa Monica. In 1994, however the Northridge Earthquake caused significant damage around the city. Potentially because of this earthquake, Methyl Tert-Butyl Ether (MTBE), a gasoline contaminant, was discovered in the city's well water supply in 1996, leading the City of Santa Monica to close all five wells and begin importing 100% of its water. The City ultimately sued for replacement water costs (ARG/HRG 2018; LAT 1996, 1997; SA Associates 2010).

3.2 Development History of the Project Site

Colonel Robert S. Baker and John Percival Jones not only surveyed and laid out the original town site for Santa Monica in 1875 but also were required to provide for its water needs. Baker and Jones secured water rights to two reservoirs that filled from the San Vicente Springs (in the lands purchased from the San Vicente Rancho) as well as the infrastructure to pipe the water to the town. Baker and Jones formed the Santa Monica Land & Water Company in order to manage and dispense water as a utility in the town in these early years, and slowly made improvements to the system over time: new mains and branch lines to service new neighborhoods, new hydrant tie-ins for emergencies, and eventually new reservoirs. This system was quickly outpaced by the increased real estate development, and by the early 1890s, the San Vicente Springs were depleted (Evening Outlook 1975; Ingersoll 1908; LAH 1875; Sanborn 1891; Santa Monica Outlook 1890).

Multiple private water company were formed in the late 1890s to provide water to the growing Santa Monica area. Two companies formed to secure the water rights to springs in the Santa Monica Mountains and foothills north of Santa Monica, including Santa Monica Water Company (1897) and City Water Company (1896). Artesian Water Company,

organized to serve Ocean Park and south Santa Monica, as well as drain the Ballona Creek swampland, appeared in 1899. As they formed, these companies carved out territories for service, with certain companies only covering portions of the city (Evening Outlook 1975; Ingersoll 1908; LAH 1875, 1896; LAT 1901; Sanborn 1895, 1902).

In 1904, Jones and Baker began breaking up over 30,000 acres of land to put up for sale from their holdings at the San Vicente, Boca y Santa Monica, and Santa Monica ranchos, and then transferred this to Artesian Water Company. Santa Monica Land & Water Company, Santa Monica Water Company, and Sawtelle Water Company all consolidated under Artesian Water Company. Santa Monica Land & Water Company also subdivided roughly 450 acres just east of Santa Monica City limits, between 26th Street and the Soldier's Home grounds in Sawtelle, where the future Arcadia Water Treatment Plant would be located. This opened up the area for massive suburban growth, and expansion of the city's private water systems, however the private companies lacked the initial capital to expand service to the quickly developing areas that transitioned from former dry-farmed field to a quickly filling residential suburb. Residents protested the poor service in 1904, despite new private water companies emerging in 1904 and 1905. Anger and protests surrounding the water shortages reached a fever pitch in 1912, when the special meeting of the City Council ordered suit brought against Santa Monica Water Company for failure to supply water to customers (Evening Outlook 1975; Ingersoll 1908; LAT 1904a, 1905, 1912).

In 1906 and again in 1914, the city government was restructured into a three-person full-time board of commissioners, set up to meet daily and set policy. The City was immediately bombarded by interest in being annexed to City of Los Angeles, in order to take advantage of their municipal water system. Rather than seeking annexation, the City held out and attempted to solve its water crisis by forming their own municipal water department. In 1915, the City of Santa Monica held an election to approve bonds to purchase the holdings of four private water companies: the Santa Monica Water Company, Ocean Park Water Company, Irwin Heights Water Company, and City Water Company. Though the bond election failed on the first try, the issue was revived and in 1916. Among the properties offered to the city by the private water companies was the proposed site for a 5 million gallon reservoir, at the corner of Nevada Street (now Wilshire Boulevard) and S. 16th Street (now Saltair Avenue), in Sawtelle (Evening Outlook 1975; LAT 1912, 1915a, 1915b, 1915c, 1916a, 1916b, 1917; Santa Monica Outlook 1906, 1915).

Even with a municipal water system in place and additional infrastructure on the way, the City of Santa Monica's water supply was still insufficient to cover residential, commercial and industrial needs. In 1928, the City of Santa Monica became a charter member in the Metropolitan Water District (MWD), applying for water supplied from the Colorado River to other member cities, including Anaheim, Beverly Hills, Burbank, Compton, Fullerton, Glendale, Long Beach, Los Angeles, Pasadena, San Marino, Santa Ana, and Torrance. MWD's Colorado River Aqueduct and the distribution system were not completed until 1940, and the first Colorado River water arrived in Sana Monica to supplement well sources (ARG/HRG 2018; Weymouth 1939).

Arcadia Water Treatment Plant

The original owners of the 1228 S. Bundy Avenue parcel was the privately-owned Santa Monica Water Company. The company officially formed in 1897, an offshoot of the Santa Monica Land & Water Company, which was a real estate development company that had promoted settlement in Santa Monica in the 1880s. The holdings included reservoirs on a 30-acre tract, which held the San Vicente rancho springs, several tunnel wells, and gravity fed pipelines back to Santa Monica, as well as a reservoir at Nevada Avenue (Wilshire Boulevard) and 26th Street (LAH 1893a, 1893b; Sanborn 1902, 1909).

The Santa Monica Water Company acquired the parcel in Sawtelle at the corner of Nevada Boulevard (Wilshire Boulevard) and Arcadia Street (Bundy Street) in 1904, when the Santa Monica Land & Water Company purchased 30,000 acres from Senator John P. Jones and Arcadia Bandini de Baker. The purchase furnished more water bearing lands for the company as well as a model village, an electric rail line right of way, and for Santa Monica more pleasure resorts. The parcel originally held a pumping station, small in-ground reservoir, and several wells. By 1910, new wells were being placed at the "Arcadia Tract" followed by more still in 1912, driven to a depth of 300 feet. In 1913, the company reported to have 68 miles of water main, three reservoirs with a total storage capacity of 2,500,000 gallons, five wells, and two 100 horsepower pumps located at the Arcadia Pumping Station, which served 1,835 customers (LAT 1904b, 1910; Santa Monica Outlook 1912, 1913).

In 1916, the Arcadia property and all holdings of the Santa Monica Water Company were acquired by the City of Santa Monica. The property is specifically mentioned as an incentive for the City of Santa Monica to purchase the Santa Monica Water Company holdings in 1915. According to the Santa Monica 1918 Sanborn map, report for water facilities, Arcadia Pumping plant had six bored wells and electric drive pumps, a pump house and a guardhouse. Water from the Arcadia tract was pumped down the Wilshire Boulevard main to the 1,300,000-gallon No. 1 Reservoir at Wilshire and 26th Street. The property first appears in the 1921 Sawtelle Sanborn Fire Insurance Map. In 1924, the 5 million gallon reservoir was added to the Arcadia Pumping Plant site (Figure 5) (LAT 1915a, 1915b, 1915c, 1916a, 1916b, 1924; Sanborn 1921, 1924; Santa Monica Outlook 1915).

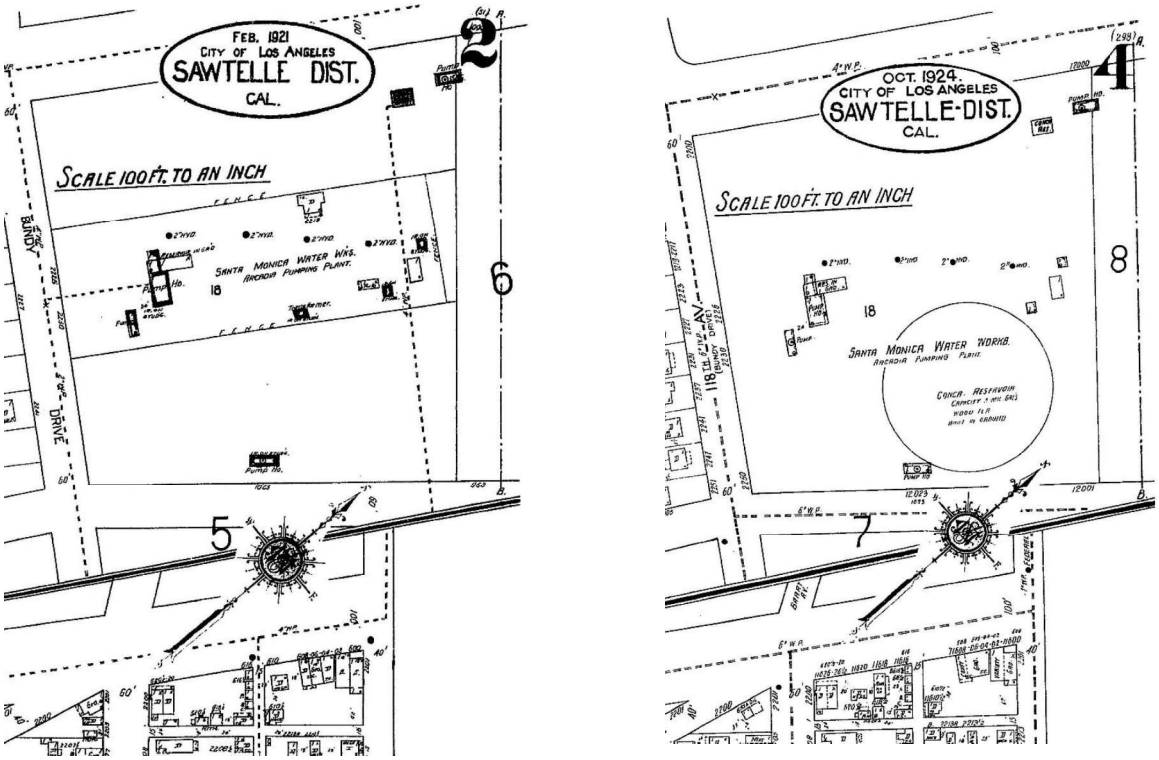


Figure 5. Sanborn Fire Insurance maps depicting Arcadia Pumping plant in 1921 (left) and 1924(right). Note addition of 5 million gallon reservoir in 1924 image (Sanborn 1921, 1924)

In the mid-1940s, a vault allowing MWD water to enter the plant was added at the Arcadia Pumping Plant parcel. At the time, the Arcadia plant's connection was the only point at which MWD water could reach the city's system. Another connection point at Charnock Well Pumping Plant was added in 1949. In 1956, a Chlorination Building was added to the plant (Permit 1956WL18112) (Figure 6). In 1957, The City consulted with engineering firm James M. Montgomery Inc. to begin studying improvements for the Arcadia Pumping Plant. These included two new houses for water department employees along Texas Avenue, a Water Pumping Plant Control Building, a garage, a new meter structure, a new valve structure, valve manholes, and a new Venturi meter structure for the MWD pipeline connection. In 1958, the City of Santa Monica gave the city's water system a $2,700,000 overhaul, including increasing the capacity at the Charnock Pumping Station (LAT 1957, 1958; Permits 1958LA07347, 1958LA07348, 1958LA07350, 1958LA07351, 1958WL07346, 1958WL07349).

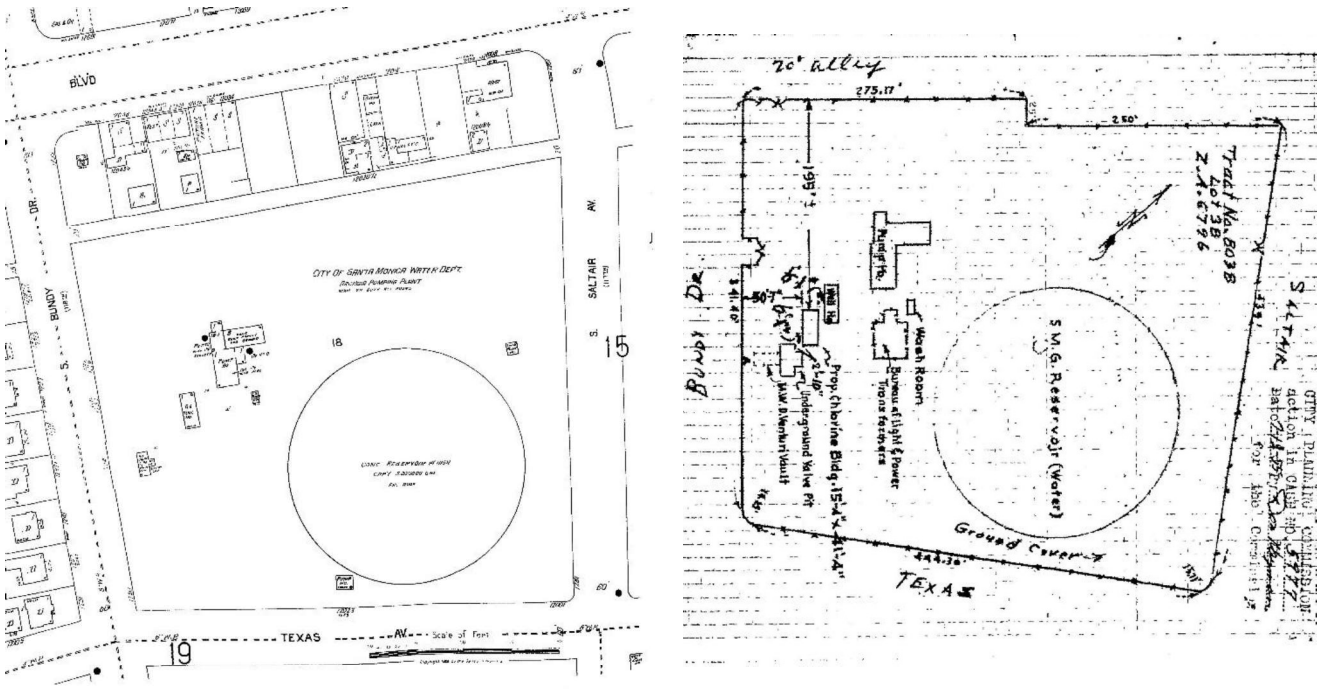


Figure 6. Maps depicting Arcadia Pumping Plant in 1948 (left) and 1956 (right). Both maps oriented so Wilshire Boulevard is at the top (Sanborn 1948; Permit 1956WL18112)

In 1964, the City of Santa Monica again hired the engineering firm of James M. Montgomery to design facilities for an 800,000 water softening and filtration plant at the Arcadia Pumping Plant site. The City had been mixing harder well water with treated, softer MWD water for decades before upgrading their system. This came amidst price hikes from MWD and the City of Santa Monica promoting self-reliance on their own wells (Figure 7). (LAT 1964, 1966; Montgomery 1966).

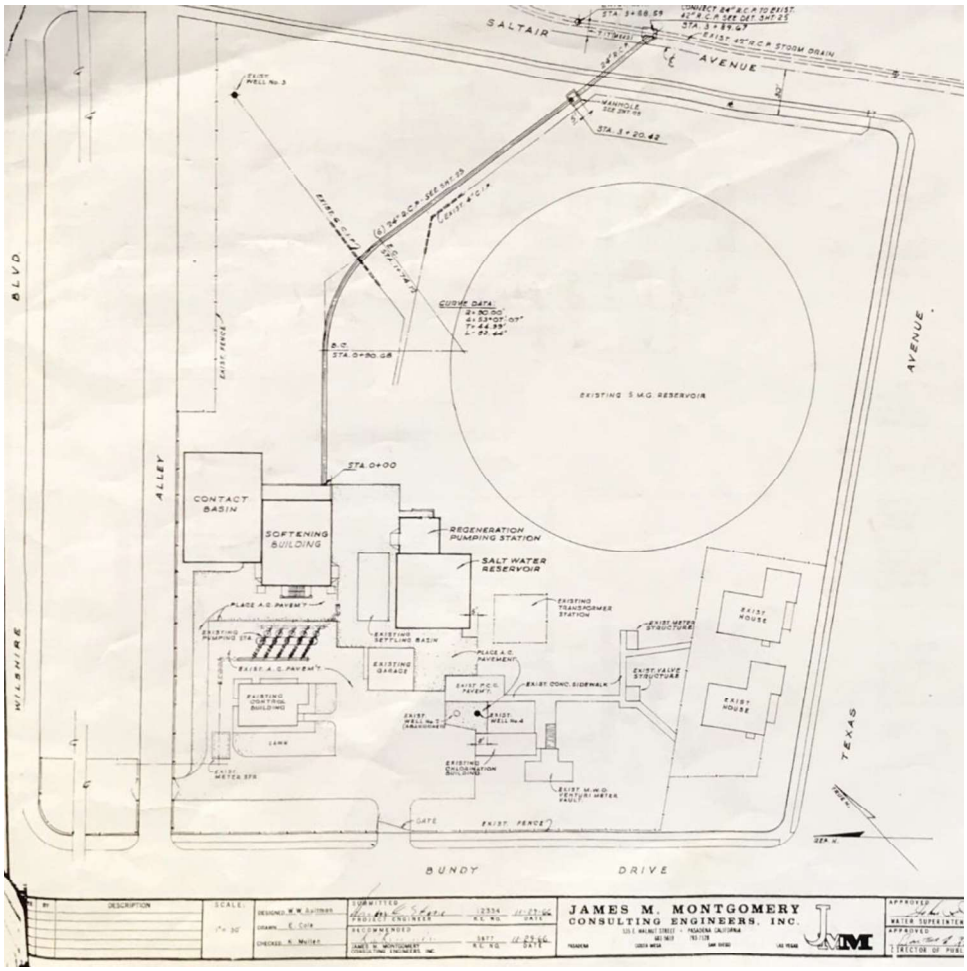


Figure 7. Plan map of the Arcadia Water Treatment Plant South elevation, James M. Montgomery, Consulting Engineers, Inc., 1966. Map oriented so Wilshire Boulevard is at left (Montgomery 1966)

A few piecemeal equipment structures and buildings were added to the property between 1964 and 2010. In 1970, a separate laboratory building was added to the facility. In 1986, a maintenance garage was added. In the 1990s the engineering firm Kennedy Jenks Clinton consulted with the City of Santa Monica for a project to install a stack, outdoor chemical feed facility, GAC scrubber, and off-gas system for the 5-million gallon reservoir (City of Santa Monica Records held at Arcadia WTP).

In 1996, an intrusion of the chemical MTBE was detected in the Santa Monica well water supply. The source of the contamination came from a leaking, below ground gasoline storage tank owned by Mobil Oil. The City of Santa Monica sued Mobil and eventually sought relief for decontaminating the wells and associated water treatment equipment. As part of the settlement, the City of Santa Monica Public Works Department also gained funding to make significant improvements to the Charnock and Arcadia Plants. At Arcadia WTP, improvements were added in

2010 when the Contact Basin building, softening building, salt water reservoir, regeneration pumping station, and settling basin, and associated cover buildings were all demolished. New buildings added in 2010 were the Greensand Filter Complex, Chemical Storage Buildings, covered Chemical Storage Area, RO Building, Decarbonator Building, and others (see Table 3) (ARG/HRG 2018; LAT 1996, 1997; SA Associates 2010).

Olympic Well Field, SM-3 Well Site

The first well field to provide water for City of Santa Monica was located near the San Vicente Springs, northeast of City of Santa Monica, which continued to provide water for City of Santa Monica from 1875 to the 1910s. The City of Santa Monica has extracted groundwater from the various wells in the Santa Monica Basin since 1924. In 1924, the Charnock Wellfield first began providing water to the City of Santa Monica, but wells appear at various private water company sites as early as 1918, including at the Arcadia property and along Olympic Boulevard. Two wells, including the SM-3 well site, along Olympic Boulevard were installed between 1968 and 1970, according to aerial imagery. After a 10-week closure in 1980, The Santa Monica City Council approved that the well be re-opened. The Olympic well sites accounted for 12% of the City water supply in 1980. (ARG/HRG 2018; LAT 1980; Sanborn 1918, 1921, 1924; Santa Monica Outlook 1924; UCSB 2019).

Overview of the Well Sites and Proposed Recycled Water Pipeline

Further west from the SM-3 Well Site, three new wells are proposed for the median in Olympic Boulevard.The 1875 Los Angeles & Independence Railroad (later owned by Southern Pacific, then used as the Santa Monica Air Line) was the original primary link between downtown Los Angeles and Santa Monica. Olympic Boulevard was not extended from Los Angeles to Santa Monica until 1936. Before 1936, the road's route comprised short sections of discontinuous, two-lane paved road, interspersed with long stretches of unimproved dirt or gravel road between Los Angeles' sprawling early cities, including cutting through the Twentieth Century Fox studios and a golf course. The 1929 decision to link Olympic Boulevard to Los Angeles was prompted by the desire to have the street be a secondary state highway, linking Santa Monica to Los Angeles. The route extended the boulevard east of Tenth Street in Santa Monica, adjacent to the Santa Monica Air Line right-of-way (ARG/HRG 2018; LAT 1929, 1936).

Nearby, the Bergamot Station, had served as a passenger stop until the Santa Monica Air Line stopped in 1953. After this, the station's use became much more industrial and it was used as a siding. Olympic Boulevard in the region of these new wells changed again in 1959 when the City of Santa Monica approved a rezoning of the south side of Olympic Boulevard, between 18th Street and 21st Street, from residential to industrial. As part of the City' 1958 Master Plan, the zoning change gave Santa Monica much needed industrial parcels to offer to developers, creating the industrial area beside the Santa Monica Air Line right-of-way and the route of Interstate 10. As a result, in the 1960s many industrial buildings were built in this area of Santa Monica. South of Exposition Boulevard (ARG/HRG 2018).

While industrial uses dominated near the railroad track and Olympic Boulevard, residential areas were still being established along and south of Exposition Boulevard. Between Stewart and Warwick Avenue, Tract 7993 was developed with multi-family housing in mind, and several one and two-story apartment buildings were built there beginning in 1924. Just east, Tract 14800 was one of Santa Monica's only suburban residential subdivisions, bordered by Exposition Boulevard on the north, present-day Virginia Avenue on the south, Centinela Avenue on the east, and Warwick Avenue on the west. The tract's developers used Federal Housing Authority (FHA) guidelines, which typified so many post-World War II developments in the Los Angeles region. Residences in this tract were constructed in 1951 in Minimal Traditional style. (ARG/HRG 2018).

3.3 Engineer: James M. Montgomery, Consulting Engineers, Inc. (1945-1990)

James M. Montgomery (1896-1969) was born in Ohio in 1896, and moved to Los Angeles California by 1910. He briefly served in the military during World War I, and was honorably discharged in October 1918. Montgomery returned to Newark, Ohio for a few years, but eventually moved back to Los Angeles Between 1935 and 1940. Montgomery launched his engineering firm in 1941, after having some success in helping design the F.E. Weymouth Memorial Water Softening and Filtration Plant in 1936 with MWD. This early connection with water infrastructure led to a career of consulting, studies, reports, and designing water infrastructure systems for Southern California and the greater West Coast of the United States for the next five decades. The firm was based in Pasadena for the first few decades. James Montgomery himself passed away in 1969, but his firm continued consulting work focused on water infrastructure. In 1990, the James M. Montgomery, Consulting Engineers, Inc. firm merged with Watson Hawksley, Ltd of the United Kingdom to become Montgomery-Watson. In 2001, Montgomery Watson merged with Harza Engineering and became Montgomery Watson Harza. This name was shortened to MWH Global in 2003. In 2016, MWH was acquired by Stantec Consulting, Inc. (Ancestry 2019).

Known works include:

- F.E. Weymouth Memorial Water Softening and Filtration Plant, Metropolitan Water District, City of La Verne, 1936-1941
- Arcadia plant improvements, City of Santa Monica, 1958
- William B. Cater Filtration Plan, City of Santa Barbara, 1962
- Arcadia Plant improvements, City of Santa Monica, 1966
- Water Softening System, Alameda County Water District, 1966
- South San Diego Reservoir, City of San Diego, 1968
- Anaheim Lake demonstration desalination plant, Orange County Water District, 1973
- Warner Ave Sewer Pump Station, City of Huntington Beach, 1986

4 Field Survey

4.1 Methods

Dudek Architectural Historian Kate Kaiser, MSHP, conducted a pedestrian survey of the Arcadia WTP property and a windshield survey of the proposed Olympic Well Field well locations and the route of proposed Olympic pipeline, which would connect the Arcadia WTP and Olympic Well Field, on September 24, 2019. The project components added in April and May 2020, which included additional well sites and the proposed recycled water pipeline were surveyed using Google Streetview and aerial imagery on May 5, 2020. The pedestrian survey entailed walking all portions of the exterior of the Arcadia WTP property and documenting the building on site with notes and photographs, specifically noting character-defining features, spatial relationships, observed alterations, and examining any historic landscape features on the property. The windshield survey entailed driving the route of the proposed pipeline as well as the Olympic Boulevard well locations. All field notes, photographs, and records related to the current study are on file at Dudek's Pasadena, California, office.

4.2 Results

During the course of the pedestrian survey, Dudek identified 13 buildings and structures over 40 years[1] of age requiring recordation and evaluation for historical significance at the Arcadia WTP property located at 1228 South Bundy Drive (Table 3). Additionally, Dudek identified two above ground structures associated with theSM-3 well site within the Olympic Boulevard median. These are described in brief below Table 3. All buildings numbers in the table below correspond to building numbers in Figure 3 Arcadia WTP Study Area. State of California Department of Parks and Recreation Series 523 (DPR) forms are located in Appendix C. No resources were identified as a result of the survey at proposed well sites SM-8, SM-9, SM-10i, SM-11i, or at the proposed Recycled Water Pipeline.

[1] Although 45 years is typically the age threshold for CEQA projects, this report uses a 40 year age threshold in consideration of City of Santa Monica Municipal Code Chapter 9.25E (Demolition and Relocation).

Arcadia Water Treatment Plant

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

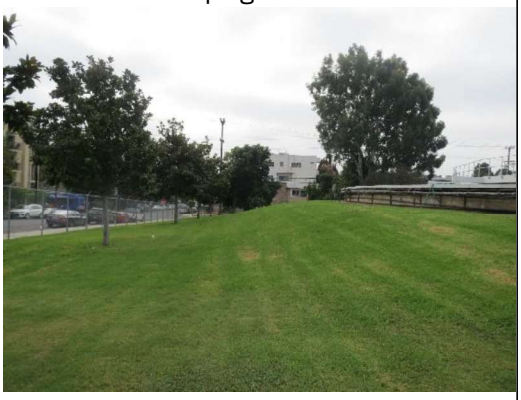
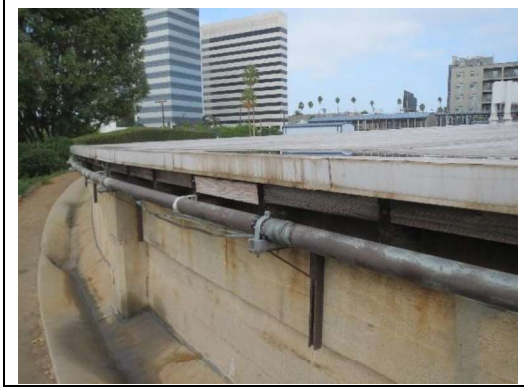
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
Buildings and Structures over 40 years old			
Reservoir landscaping 	Unknown engineer; 1924	This landscaped slope is located northeast of the 5 million-gallon reservoir and slopes downhill towards Saltair Ave. The area is covered with grass lawn, and features a row of 8 immature trees.	Aerial photographs indicate that this area has had trees since the earliest available photo-graphs from 1927, and various numbers of mature trees were re-moved sometime between 1929 and 1934 and again between 1981 and 1983, and most recently in 2010
3. Water Storage Reservoir  	Unknown engineer; 1924	The Water Storage Reservoir is an in-ground concrete reservoir with a capacity for 5 million gallons. The Roughly 3 feet of the concrete reservoir wall, reservoir roof, off-gas system, and access scaffolding and metal walkways are the only above ground features. The visible reservoir wall is board formed concrete. The reservoir roof is wood, clad with rolled roofing with metal seams at the lip. A concrete gutter runs the circumference of the reservoir, just under the drip line. A metal water pipe also runs the circumference of the reservoir, just under the drip line	1981: Structural repairs to reservoir roof 1994: off-gas duct system added

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
20. Arcadia Groundwater Wells (Well No. 4) 	Circa 1928-1956	Arcadia Well No. 4 is located just north of the Chlorination Building and consists of a pumping apparatus over a raised concrete pedestal. The well structure extends below ground.	Well No. 4 had well house structure over it which was demolished by 1970
19. Electrical Equipment (Transformer Yard) 	Circa 1940-1947	While a transformer yard appears on the permit maps after 1956, the yard is absent from the 1948 Sanborn Fire Insurance Map. Transformer models could not be ascertained during field visit.	Addition (Building No. 11 Emergency Generator)

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
21. Chlorine Building  	Kirk B. Florence, 1956	The Chlorination Building is a flat roofed, rectangular plan building constructed of concrete masonry units (CMU), with a short parapet extending above roofline. Fenestration consists of a large roll-up metal garage door on the northwest elevation, two one-over-one aluminum sash windows on the northeast elevation, a metal door and one-over-one aluminum sash window on the southeast elevation, and three and one-over-one aluminum sash windows on the southwest elevation. Two metal scuppers and downspouts are visible on the southwest elevation.	Observed alterations: HVAC system, storage lockers, emergency eyewash added to sides and roof of building

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
26. 12035 Texas Avenue (Employee Housing)  	Wallie A Pollock (Architect); Bartlett L. Kennedy (Engineer), 1957	This employee house and integrated garage were built in 1957, and are irregular plan Ranch Style buildings. The building is clad with stucco and features a hipped roof with open eave. The main elevation (facing southeast to Texas Avenue) is the only visible and accessible elevation. The porch is a covered concrete stoop, with the roof supported by wood posts. Fenestration consists of aluminum sliding sash windows, a picture window framed by aluminum sliding sash windows to both sides, and porch integrated under the roof overhang. The garage features a wood, tilt-up garage door and no fenestration. No other elevations were visible during survey.	No observed or permitted alterations were noted for this building

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

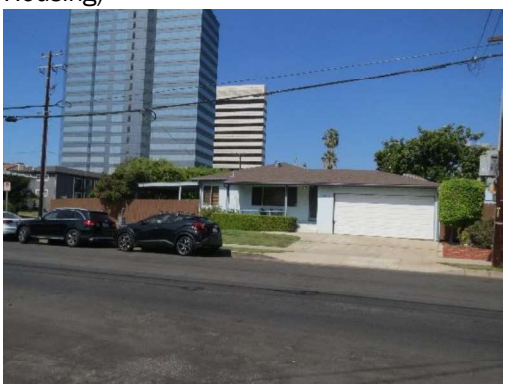
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
26. 12041 Texas Avenue (Employee Housing)  	Wallie A Pollock (Architect); Bartlett L. Kennedy (Engineer), 1957	This employee house and integrated garage were built in 1957, and are irregular plan Ranch Style buildings. The building is clad with stucco and features a hipped roof with open eave. The main elevation faces southeast to Texas Avenue, and features a covered, concrete stoop porch, with the roof supported by wood posts. Fenestration consists of aluminum sliding sash windows, a picture window framed by aluminum sliding sash windows to both sides and a screen door. The garage features a metal roll up garage door and no fenestration. No other elevations were visible during survey.	Observed alterations include the replacement of the garage door with a modern automatic roll up garage door and a large covered shed roofed awning attached to the southwest elevation of the house, providing a covered porch in the side yard. Additionally, skylights have been added to the roof in various locations
17. Booster Pumps 	Circa 1958	The Booster Pump station consists of a set of five horizontal metal pumps set into a concrete platform. Connected through pipes and four raised aluminum boxes. The pumping station first appears in aerials and on maps in 1958 and was likely installed in concert with the other 1958 improvements to the Arcadia property.	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

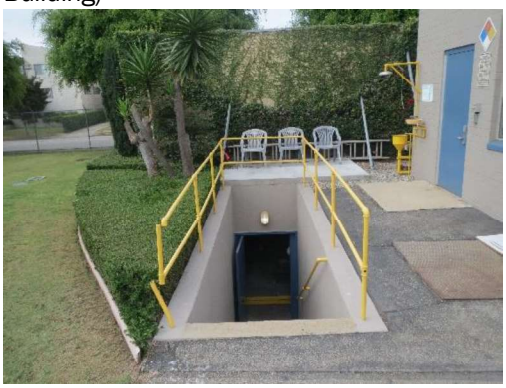
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
18. Staff Room/Conference Room (Garage) 	James M. Montgomery Consulting Engineers, Inc., 1958	This building is a rectangular plan, utilitarian style building, with a flat roof and parapet and constructed of concrete masonry units. Fenestration consists of two lite sliding metal sash windows and metal doors with single lites. A metal scupper and downspout are visible on the northwest elevation.	1970: Relocate overhead garage door from west to south elevation (Permit 1970WL82354)
22. MWD Vault Building (MCR Meter Building)  	James M. Montgomery Consulting Engineers, Inc., 1958	This building is a rectangular plan, utilitarian style building, with a flat roof and parapet and constructed of concrete masonry units. The above-ground portion, A component of this building is underground and features a concrete lined staircase with metal guard rails. The underground portion was not accessed during the field visit. Fenestration in the above-ground portion and consists solely of louvered vents. Fenestration in the below ground portion is limited to a metal, window-less door.	No observed or permitted alterations were noted for this building. The 1958 vault seems to have replaced an earlier vault placed between 1941 and 1956, referred to in maps and building plans as a “Venturi Vault”

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

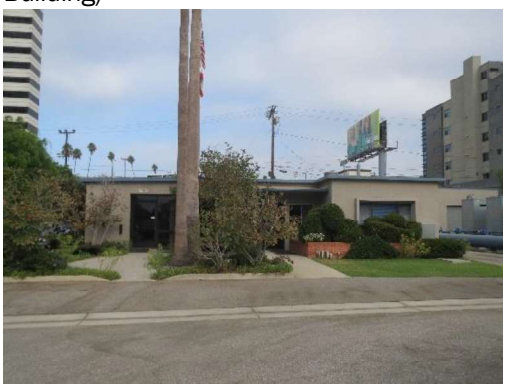
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
23. Administration Building (Control Building)  	James M. Montgomery Consulting Engineers, Inc., 1958	The Administration Building is a Mid-Century Modern Style office building, featuring a flat roof with slight overhang and CMU constructed walls. The main elevation faces southeast, and overlooks a small lawn, trees, landscaped plants, and planters. Fenestration consists of metal sash windows on the main elevation set into protruding concrete bezeled frames, and metal-framed glass doors. Fenestration on all other elevation consists of single lite fixed windows, metal doors with single lites, and one-over-one metal sash windows under awning hoods.	Southwest Addition (c.1989-1994)
Meter and Valve Structures (located in trenching, construction, staging area) 	James M. Montgomery Consulting Engineers, Inc., 1958	Located near the southwest corner of the property, immediately north of the two employee residences along Texas Avenue. This consists of two in-ground concrete vaults with a metal lids. Vaults project roughly 8-12 inches above the surface and are situated in a grass lawn, they are connected to the remainder of the site by paved sidewalks.	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
16. Office/Storage 	Ivan D. Goplen, 1970	This is a one-story rectangular plan, utilitarian building, featuring a flat roof with parapet and CMU construction. The main elevation faces southeast. Fenestration consists of fixed, single lite windows, solid metal doors, metal doors with single lites, and a metal roll-up garage door.	Addition on southwest elevation in circa 1981, 1983 (Building No. 24)
Buildings and Structures less than 40 years old			
24. Laboratory 	c. 1981-1983	This building is not a separate building, but a one-story rectangular plan, utilitarian addition to the 1970 office/storage building. Fenestration consists of fixed, single lite windows and solid, windowless metal doors. The northeast elevation abuts 19. Office Storage building.	Addition to Building No 16. Office/Storage
5. Maintenance Building (Garage Building) 	City of Santa Monica Water/Waste Water Division, 1986	This building is a 25 foot by 60 foot vehicle storage building, with a flat roof and parapet. The rear and side elevations are banked into the artificial hillside of the reservoir. The main elevation features three roll-up garage doors and one solid metal door. The building is constructed of 4" concrete masonry unit block.	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

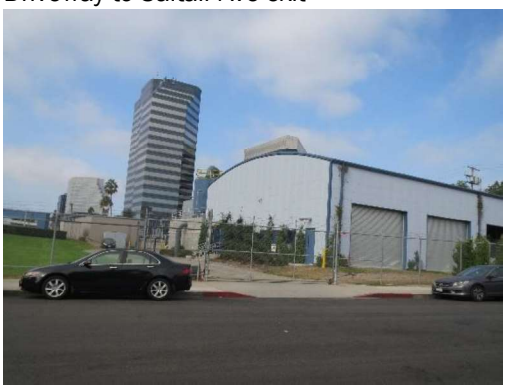
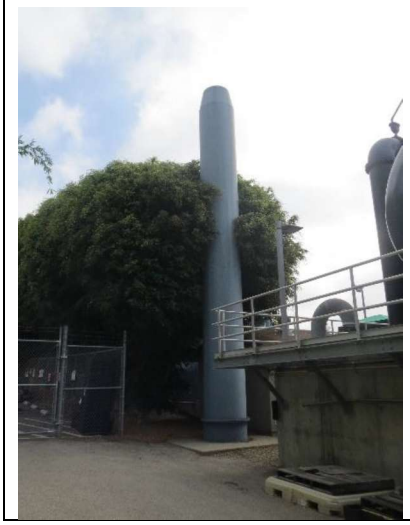
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
Driveway to Saltair Ave exit 	Unknown, c.1989-1994	This pavement is a standard 2-line width, unlined asphalt road connecting the parking and activity area near the control room and pumps to Saltair Avenue. Previously, pavement extended no further than the northern extend of Building 11. Greensand Filter Complex, which was the former location of the water softening plant. It was added to the property some time between 1989 and 1994, corroborated by aerial photographs.	2010: resurfaced during City of Santa Monica Civil Engineering; Black & Veatch Corporation Well Field Restoration Project
11. Emergency Generator 	City of Santa Monica General Services Department Engineering Division; 1992	The emergency generator is housed in a metal trailer located southwest of the 5 million gallon reservoir.	Paved generator pad added in 2010 during City of Santa Monica Civil Engineering; Black & Veatch Corporation Well Field Restoration Project
Stack 	Kennedy/Jenks/ Clinton; 1994	35-foot high, by 4-foot diameter Welded Steel Pipe off gas stack with steel flanges bolted together between sections. Tapers slightly at the top to a 3 foot opening	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
4. Outdoor Chemical Feed Facility 	Kennedy/Jenks/ Clinton; 1994	The outdoor chemical feed facility consists of three blue metal cisterns, located just northwest of the GAC scrubber structure	No observed or permitted alterations were noted for this structure.
4. GAC Scrubber 	Kennedy/Jenks/ Clinton; 1994	The GAC Scrubber structure consists of a rectangular plan CMU structure with three open-ended bays facing southeast. The open-ended bays are loosely covered in canvas cloth and have large metal ducts leading through them.	No observed or permitted alterations were noted for this structure.
6. Storage Building 	Kennedy/Jenks/ Clinton; 1994	The storage building is a rectangular plan, gable ended stucco-clad building behind (west of) the GAC Scrubber Building. Fenestration consists only of a metal door with louvered vent on the northeast side.	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
1. RO Building 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The RO (Reverse Osmosis) Building is located in the north corner of the property and consists of a steel framed building with a semi-circular metal roof, clad with a prefinished metal wall panel system. Fenestration consists of metal doors, fixed single-pane windows, louvered vents, and four large bays with roll-up metal doors on the northeast elevation facing Saltair Avenue.	No observed or permitted alterations were noted for this structure.
2. Decarbonator 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Decarbonator Building is a solid concrete platform pad with no fenestration. The building has a meta stair attached to the northwest elevation and has equipment, ducts and cisterns atop it. The platform also has a metal rail along the outer edge, and a green awning on the southwest elevation, sheltering electrical equipment and chemical stores.	No observed or permitted alterations were noted for this structure.
7. Cartridge Filter 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The cartridge filers consists of four cartridge filters on a short (8-inch height) concrete pad, immediately northeast of the greensand filter complex.	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

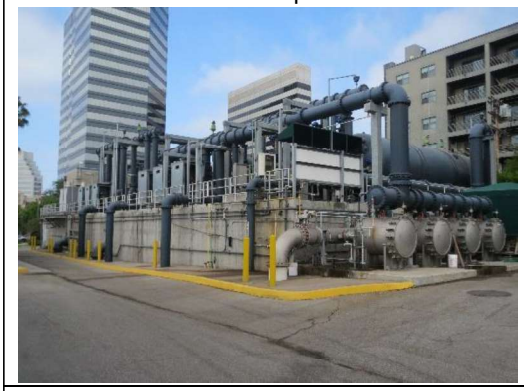
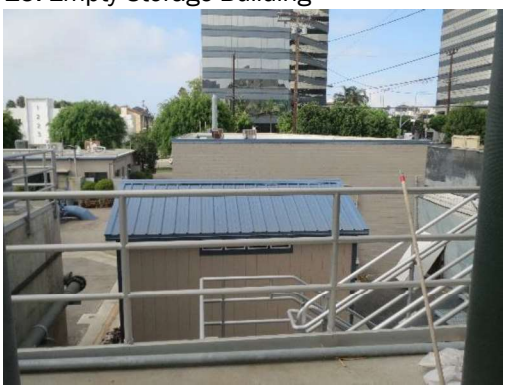
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
8. Greensand Filter Complex 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Greensand Filter Complex is a series of open-air filtration equipment set atop a concrete pad. The structure is bordered by the alley to the northwest, cartridge filter structure to the northeast chemical storage and garage buildings to the southeast, and electrical building to the southwest.	No observed or permitted alterations were noted for this structure.
9. Chemical Storage Building 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	This building is a gable-ended, rectangular plan steel framed utilitarian building, clad with prefinished metal roof panels, and clad with metal screens to allow ventilation. A Shed roofed portion of the building is on the northeast elevation. Fenestration consists of two roil up garage doors on the northeast elevation, metal doors on the northwest, and southeast elevations.	No observed or permitted alterations were noted for this structure.
10. RO Feed Pumps 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The RO Pump building (formerly the Fluoride Building) consists of a steel framed building with a semi-circular metal roof, clad with a prefinished metal wall panel system. Fenestration consists of metal doors on the northwest and northeast elevations and one roll-up metal door on the northwest elevation.	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
12. Staff Facilities (showers/lockers) 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Staff Facilities and Locker Building is a rectangular plan, flat roofed building with parapet, with split face CMU wall construction topped with metal coping. Fenestration consists of metal doors and 8"x8" glass block windows on the southeast, southwest and northwest elevations. The building is situated between the 12. Chemical Storage Building and the 21. Staff Room/Conference Room (Garage)	No observed or permitted alterations were noted for this structure.
13. Electrical Building and Inlet Valve 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Electrical Building and Inlet Valve structure at attached to the northwest elevation of the 11. Greensand Filter Complex. The Electric Building is a rectangular plan, flat roofed building with parapet, set atop a smooth concrete platform pad, with split face CMU wall construction topped with metal coping. The building is accessed by a metal stair and railing leading to the operating floor of the concrete pad. Fenestration consists only of metal doors on the northwest and northeast elevations. A fan providing ventilation and a signboard reading "Santa Monica Water Treatment Plant" is attached to the exterior of the southwest elevation.	No observed or permitted alterations were noted for this structure.

Table 3. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
14. Washwater Recovery System and Tank 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	This structure is set atop the concrete pad operating floor of the 11. Greensand Filter Complex. It consists of a square-shaped welded steel tank with horizontal ribbing and an inlet pipe, and a chevron shaped welded steel tank with horizontal ribbing and an inlet pipe.	No observed or permitted alterations were noted for this structure.
15. Empty Storage Building 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	This building is a square plan, gable ended small building situated between the booster pumps and electrical room building pad. The building is clad with T1-11 plywood panels, and prefabricated standing seam metal roofing. Fenestration consists of a metal door on the main (southwest) elevation and louvered vents.	No observed or permitted alterations were noted for this structure.

SM-3 Well Site

Two above-ground structures associated with the Olympic Well Field were recorded in the course of survey. Only SM-3, the northeastern-most well, will be decommissioned as a part of the proposed Project. The well is immediately southwest of the intersection of Centinela Avenue (northwest-bound) and Olympic Boulevard. It is located on a concrete pad in the grass lawn of the median. The above ground portion of the well structure consists of two raised concrete pads, roughly 8" tall, with four ventilation pipes on one pad (Figure 8). According to aerial photographs, two wells along Olympic Boulevard, including SM-3, appear sometime between 1968 and 1970 (UCSB 2019). Well SM-3 is an existing operational well located approximately 100 feet north of the proposed Well SM-9 location, which

would be decommissioned. This process involves the abandonment of the groundwater well in accordance with California Department of Water Resources (DWR) Well Standards regulations and Bulletin 74-81 that governs well abandonment requirements, including the removal of all material from the well, removal of the well casing and subterranean pumping equipment, and sealing the well. The existing vault, concrete/access hatch, and concrete slab would remain as-is.



Figure 8. Northwest-most well (SM-3), view looking west (IMG_4280)

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5 Significance Evaluation

Two properties over 40 years old were identified within the study area as a result of the survey: the Arcadia Water Treatment Plant at 1228 South Bundy Drive, and the wells along Olympic Boulevard between the Centinela Avenue and Stewart Street intersections. The following provides an evaluation of the two sites in consideration of NRHP, CRHR, and City of Santa Monica designation criteria and integrity requirements.

5.1 Arcadia Water Treatment Plant

The Arcadia WTP parcel, located at 1228 South Bundy Drive (APN 4263-003-270), was originally developed in 1904 and had water infrastructure, including several wells, by 1910. Nearly all original development has been demolished, leaving only later developments, the earliest of which is the 1924 5-million gallon reservoir, and a few 1958 and 1966 historic-age buildings. The site has had several modern development periods, with 4 buildings added in 1994 and 10 buildings added in 2010.

NRHP/CRHR Designation Criteria

The following provides an evaluation of the Arcadia WTP property at 1228 South Bundy Drive in consideration of NRHP and CRHR designation criteria and integrity requirements.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Archival research did not find any association with events that have made significant contributions to the broad patterns of local or regional history. The Arcadia WTP parcel was first developed in 1904, and the City of Santa Monica acquired the parcel from private water company Santa Monica Water Company in 1916. The 5-million gallon reservoir was added in 1924, and all buildings on site were introduced after 1956. However, all original infrastructure from the 1904-1916 private water company period has been lost as of 2010, and the remaining buildings and structures are not associated with any specific patterns of history within Santa Monica. Additionally, the Arcadia WTP is not known to be directly associated with events that have made a significant contribution to the history of the State or nation. Therefore, the property does not appear eligible under NRHP/CRHR Criterion A/1.

Criterion B/2: That are associated with the lives of persons significant in our past.

Archival research did not indicate that the Arcadia WTP is associated with any historically significant figures at the national, State, or local level. Therefore, the property does not appear eligible under NRHP/CRHR Criterion B/2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

The Arcadia WTP property was originally developed in 1904, however, all known infrastructure from this period have been demolished. The oldest structure at Arcadia WTP is from 1924, and the majority of structures were added between 1956 and 1964. The 1924 reservoir, and all buildings and structure added to the site between 1956 and 1966 are utilitarian in construction and lack a cohesive, specific architectural style. Most buildings and structures are constructed of either metal or concrete masonry units and are otherwise unremarkable in their construction

methods and architectural style. The buildings and structure at Arcadia WTP do not possess high artistic value. The known engineer associated with buildings developed between 1956 and 1966 at Arcadia WTP was James M. Montgomery, Consulting Engineers, Inc. however, it is unlikely that Montgomery himself was consulting and designing buildings for this plant as his name is specifically not on records. Montgomery and his firm are strongly associated with the development of water infrastructure in Southern California, and in later years throughout the United States, however there is nothing at the Arcadia WTP that specifically recalls an association with the firm. Further, many of the firm's buildings were removed in 2010 when much of the plant was redeveloped. Though Montgomery himself may be considered a master engineer with a specific water infrastructure focus, his consulting firm may not be considered master engineers. Overall, the buildings and structure at Arcadia WTP are simplistic and utilitarian in design. Therefore, the property does not appear eligible under NRHP/CRHR Criterion C/3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The Arcadia WTP property is not significant as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies. Therefore, the property does not appear eligible under NRHP/CRHR Criterion D/4.

City of Santa Monica Structure of Merit Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the Arcadia WTP at 1228 South Bundy Drive does not appear eligible under any of the City of Santa Monica Structure of Merit criteria, as described below:

The structure has been identified in the City's Historic Resources Inventory.

The Arcadia WTP at 1228 South Bundy Drive is not currently listed in the City's Historic Resources Inventory.

The structure is a minimum of 50 years of age

The Arcadia WTP at 1228 South Bundy Drive was originally developed in 1904, but all original buildings and structures have been removed. The oldest structure remaining at the Arcadia WTP is the 1924 5-million gallon reservoir. The remaining buildings and structures were added to the site after 1956.

and meets one of the following criteria:

1. ***The structure is a unique or rare example of an architectural design, detail or historical type.***

The buildings and structures at the Arcadia WTP at 1228 South Bundy Drive are utilitarian in construction and are not unique or rare examples of an architectural design, detail or historical type.

2. ***The structure is representative of a style in the City that is no longer prevalent.***

Utilitarian structures housing utilities are not a style in the City which can be categorized as "no longer prevalent." Utilitarian structures have been constructed at the Arcadia WTP as recently as 2010 and the practicality of the style persists as a cost-effective and functional architectural style.

3. *The structure contributes to a potential Historic District. (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015)*

The Arcadia WTP at 1228 South Bundy Drive does not contribute to a potential historic district as defined in Ord. No. 2486CCS §§ 1, 2.

City of Santa Monica Landmark Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the Arcadia WTP at 1228 South Bundy Drive does not appear eligible under any of the City of Santa Monica Landmark or Historic District criteria, as described below:

1. *It exemplifies, symbolizes, or manifests elements of the cultural, social, economic, political or architectural history of the City.*

The Arcadia WTP at 1228 South Bundy Drive is one of several pumping plants and well sites originally developed by a private water company in the early twentieth century. It is neither the oldest such site associated with private water companies in Santa Monica, nor with the oldest water company operating in the region. The plant was also one of several private water company holdings sold to the City of Santa Monica in 1916 and developed into municipal water infrastructure, including wells, treatment plants, and pumping stations. The buildings and structure at Arcadia WTP are not good examples of this early period of municipal utility development in Santa Monica as none of the original buildings from the 1904-1916 or 1916 purchase period remain. The tenuous connection to the City's economic or political history and the Arcadia WTP were lost when the original buildings were demolished in 2010. It is also not associated with specific instances of cultural, social, or architectural history in the City of Santa Monica. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 1.

2. *It has aesthetic or artistic interest or value, or other noteworthy interest or value.*

As described above in NRHP/CRHR Criteria C/3, the Arcadia WTP has no artistic interest or value. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 2.

3. *It is identified with historic personages or with important events in local, state or national history.*

As described above in NRHP/CRHR Criteria A/1 and B/2, the Arcadia WTP is not associated with an important historic person or important historical event. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 3.

4. *It embodies distinguishing architectural characteristics valuable to a study of a period, style, method of construction, or the use of indigenous materials or craftsmanship, or is a unique or rare example of an architectural design, detail or historical type valuable to such a study.*

As described above in NRHP/CRHR Criteria C/3, the Arcadia WTP does not have a distinctive have the architectural characteristics of a specific historical style that could be considered valuable to a study of period, style, method of construction, and craftsmanship; or as a rare example of architectural design, detail of historical type. The buildings and structure at Arcadia WTP are overly simplistic, lack reference to a specific style and may be categorized as utilitarian in both design and materials. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 4.

5. *It is a significant or a representative example of the work or product of a notable builder, designer or architect.*

As described above in NRHP/CRHR Criteria C/3, the remaining building stock at Arcadia WTP may be associated with the designing engineering firm James M. Montgomery, Consulting Engineers, Inc. but may not be specifically associated with James M. Montgomery himself. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 5.

6. *It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City.*

The Arcadia WTP at 1228 South Bundy Drive was established on an existing well site in the early twentieth century, originally several blocks east of the City of Santa Monica limits at 26th Street and later Centinela Avenue. The site was quickly absorbed into the town site of Sawtelle, which became part of the City of Los Angeles in 1918. Therefore, the location of the Arcadia WTP is outside of the City of Santa Monica and may not be considered an established and familiar visual feature of a neighborhood, community, or the City.

Integrity Discussion

Integrity is the ability of a property to convey its significance. To be listed in the NRHP or CRHR, a property must not only be shown to be significant under designation criteria, but it also must have integrity. The seven aspects of integrity are location, setting, design, materials, workmanship, feeling, and association. In order to retain historic integrity "a property will always possess several, and usually most, of the aspects" (Andrus and Shrimpton 2002).

Location: The Arcadia WTP property is sited on the original 1904 location. Therefore, the property retains integrity of location.

Design: The Arcadia WTP does not retain integrity of design. Nearly all buildings and structures on the Arcadia WTP property remain unchanged since their construction, lacking significant additions or alterations to the building origination, function, layout, materials, etc. However, the basic function of Arcadia WTP has changed over time from a well site and pumping station to a reservoir storage site, to a hard-water treatment plant, and then experienced a period of disuse while the wells sites were contaminated, before being redeveloped into a water storage and treatment site in the 2010s. The Arcadia WTP site as a whole no longer functions as originally designed in the 1910s, 1920s, 1950s, or 1960s historical construction periods.

Setting: The Arcadia WTP does not retain integrity of setting. When the Arcadia WTP was first developed, Salt Air Avenue and Wilshire Boulevard did not have the commercial or multi-family properties which are there today. In the 1956-1966 period of development for which many buildings and structures at Arcadia WTP are associated, Wilshire Boulevard, Bundy Drive, and Saltair Avenue were still relatively less densely developed. The setting of the Arcadia WTP within a residential neighborhood and small-scale commercial area along Wilshire Boulevard changed rapidly between 1960 and 1990, allowing many more multiple family residential uses, and densifying commercial properties along Wilshire Boulevard. This growth continued until roughly the 1990s, and as a result, the current Arcadia WTP and its setting cannot be associated with the historic periods of development.

Materials: The Arcadia WTP does not retain integrity of materials. All of the original buildings and structures from the 1904 an-1916 private water company period have been demolished. The oldest structure, the 1924 reservoir has been reroofed with modern material several times and had an off-gas duct system added. The 1950s and 1960s-period of development building have minor alterations such as in-kind additions, door reconfiguration, and

material replacement of windows and doors. Existing materials observed during survey, namely concrete, are so ubiquitous that it cannot be identified to a specific historical period.

Workmanship: Similar to materials, the Arcadia WTP does not retain integrity of workmanship. The physical evidence of the craftsmanship for these simple utilitarian buildings was already low. Coupled with the removed original 1904-1916 period buildings, all evidence of early/original craftsmanship has been demolished.

Feeling: Overall, the Arcadia WTP does not retain integrity of feeling. Though most standing buildings have few non-intrusive alterations, the removal of all original and early-period building diminishes the feel of an early twentieth century water treatment plant. This is future diminished by the addition of the ten buildings and structures added to the property in 2010. The Arcadia WTP property no longer retains the feeling of an early twentieth century well site and treatment plant.

Association: The Arcadia WTP does not retain integrity of association. Per NRHP Bulletin 15: Association is the direct link between an important historic event or person and a historic property. A property retains association if it is the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer. The Arcadia WTP was originally developed by private water company Santa Monica Water Company, and purchased by the City of Santa Monica in 1916, but has no association with a specific person or event in the history of Santa Monica.

In summary, the Arcadia WTP at 1228 South Bundy Drive only retains integrity of location, but lacks integrity of design, setting, materials, workmanship, feeling, and association.

5.2 Olympic Boulevard Well SM-3

NRHP/CRHR Designation Criteria

The following provides an evaluation of the SM-3 well site identified along Olympic Boulevard between Centinela Avenue and Stewart Street in consideration of NRHP and CRHR designation criteria and integrity requirements.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Archival research did not find any association with events that have made significant contributions to the broad patterns of local Santa Monica history or regional history. The well first appears on aerial photographs between 1968 and 1970. This late 1960s development is very late in the water infrastructure development history of Santa Monica, which relied on spring water for its initial period of growth and turned to wells in the 1890s and 1900s as the spring site production began to fall behind demand. The well' construction was part of City of Santa Monica Water Department's natural growth and there is no indication that the construction of the well indicated a pivotal point in the history of City of Santa Monica. Further, the SM-3 well site on Olympic Boulevard is not directly associated with events that have made a significant contribution to the history of the State or nation. Therefore, SM-3 well site does not appear eligible under NRHP/CRHR Criterion A/1.

Criterion B/2: That are associated with the lives of persons significant in our past.

Archival research did not indicate that historically significant figures at the national, State, or local level were associated with the Olympic Boulevard SM-3 well site. Therefore, the SM-3 well site does not appear eligible under NRHP/CRHR Criterion B/2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

Two Olympic Boulevard wells were visible in the Olympic Boulevard median beginning with the 1970 aerial photograph, giving a rough construction date of 1968 (not visible in aerials) to 1970 (visible). However, the SM-3 well site does not embody distinctive characteristics of a type, period, or method of construction. Archival research did not indicate that the construction of the SM-3 well site was associated with a master engineer. The SM-3 well site does not possess high artistic value, nor are they valuable as a representative of other significant or distinguishable wells. Therefore, the SM-3 well site does not appear eligible under NRHP/CRHR Criterion C/3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The Olympic Boulevard SM-3 well is not significant as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies. Therefore, the SM-3 well site does not appear eligible under NRHP/CRHR Criterion D/4.

City of Santa Monica Structure of Merit Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the SM-3 well site does not appear eligible under any of the City of Santa Monica Structure of Merit criteria, as described below:

The structure has been identified in the City's Historic Resources Inventory.

The SM-3 well site on Olympic Boulevard is not currently listed in the City's Historic Resources Inventory.

The structure is a minimum of 50 years of age

The SM-3 well site is currently between 49 and 51 years of age and according to aerials were constructed between 1968 and 1970.

and meets one of the following criteria:

1. *The structure is a unique or rare example of an architectural design, detail or historical type.*

The SM-3 well site is utilitarian in construction and are not unique or rare examples of an architectural design, detail or historical type.

2. *The structure is representative of a style in the City that is no longer prevalent.*

Utilitarian structures housing utilities are still in use by City of Santa Monica and may not be considered a style in the City that is no longer prevalent.

3. The structure contributes to a potential Historic District. (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015)

The SM-3 well site does not contribute to a potential historic district as defined in Ord. No. 2486CCS §§ 1, 2.

City of Santa Monica Landmark Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the SM-3 well site does not appear eligible under any of the City of Santa Monica Landmark or Historic District criteria, as described below:

1. It exemplifies, symbolizes, or manifests elements of the cultural, social, economic, political or architectural history of the City.

The SM-3 well site is not particularly good examples of any cultural, social, economic, political or architectural history of the City. The SM-3 well site was constructed relatively late in the development of City of Santa Monica water infrastructure, and are not associated with any cultural, social or political groups. As described above in NRHP/CRHR Criteria C/3, the SM-3 well site is utilitarian construction and not an example of an architectural style. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 1.

2. It has aesthetic or artistic interest or value, or other noteworthy interest or value.

As described above in NRHP/CRHR Criteria C/3, the SM-3 well site has no artistic interest or value. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 2.

3. It is identified with historic personages or with important events in local, state or national history.

As described above in NRHP/CRHR Criteria A/1 and B/2, the SM-3 well site is not associated with an important historic person or important historical event. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 3.

4. It embodies distinguishing architectural characteristics valuable to a study of a period, style, method of construction, or the use of indigenous materials or craftsmanship, or is a unique or rare example of an architectural design, detail or historical type valuable to such a study.

As described above in NRHP/CRHR Criteria C/3, the SM-3 well site does not have a distinctive have the architectural characteristics of a specific historical style that could be considered valuable to a study of period, style, method of construction, and craftsmanship; or as a rare example of architectural design, or a detail of historical type. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 4.

5. It is a significant or a representative example of the work or product of a notable builder, designer or architect.

As described above in NRHP/CRHR Criteria C/3, the SM-3 well site is not associated with any specific person that may be considered a master engineer. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 5.

6. It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City.

The Olympic Boulevard wells were established in the median of Olympic Boulevard after it was reconfigured into a multi-lane road with median in the early 1960s. However this location is not unique and the SM-3 well site is not established and familiar visual feature of Olympic Boulevard. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 6.

Integrity Discussion

Location: The SM-3 well site is sited on the original location of construction in its original orientation. Therefore, they retain integrity of location.

Design: The SM-3 well site retains integrity of design, and does not appear to have been altered since their original construction between 1968 and 1970.

Setting: The SM-3 well site retains integrity of setting. It is still located in the grassy median lawn between two multi-lane busy surface streets. The neighborhood fronting onto Olympic Boulevard still retains many characteristics of its industrial and manufacturing past, and is noticeably recognizable as such.

Materials: The SM-3 well site retains integrity of materials. No noticeable alterations have been made to either well.

Workmanship: Similar to materials, the SM-3 well site retains integrity of workmanship. The physical evidence of the craftsmanship required to create the utilitarian constructed wells has been retained.

Feeling: The SM-3 well site retains integrity of feeling. Due to the lack of large-scale alterations, the SM-3 well site still evokes the feeling of twentieth century water infrastructure.

Association: The SM-3 well site does not retain integrity of association. The well is still owned and operated by the City of Santa Monica Department of Public Works Water division, but is not specifically associated with a historical person or event.

In summary, the SM-3 well site retains all aspects of integrity: location, design, setting, materials, workmanship, and feeling.

5.3 Evaluation Findings

In summary both the Arcadia WTP and the SM-3 well site do not appear eligible for listing in the NRHP, CRHR, or as a City of Santa Monica Structure of Merit or Landmark due to a lack of important historical associations, lack of architectural significance, and insufficient integrity. Nor do they appear eligible as contributors to an historic district. As such, the Arcadia WTP and the SM-3 well site do not appear to be historical resources for the purposes of CEQA. Both resources identified during survey have been assigned a California Historical Resource Status Code of 6Z (found ineligible for the NRHP, CRHR, or local designation through survey evaluation).

6 Findings and Conclusions

No historical resources were identified within the Project site as a result of the CHRIS records search, archival research, field survey, or property significance evaluation. Two adjacent previously recorded sites were identified as a result of the records search: Mountain View Mobile Home Park (P-19-190932) and the Santa Monica Air Line (P-19-003803). The Mountain View Mobile Home Park (P-19-190932) was found in 2010 to be ineligible for the CRHR, NRHP, or Local Designation through survey evaluation (CHRS status code 6Z), and is therefore not considered a historic resource for the purposes of CEQA (Brunzell 2010). The Santa Monica Air Line (P-19-003803) is a historical resource for the purposes of CEQA and was identified adjacent to the Project site as a result of the CHRIS records search. This resource is adjacent to and south of Olympic Boulevard within the railroad right-of-way, and appears to have been recently modified to accommodate Metro light rail tracks and several new stations. The Santa Monica Air Line was determined eligible by way of consensus through the Section 106 process under Criterion A for its significant role in the creation and development of the City of Santa Monica, and as an important commuter rail system that served to sustain a critical connection between downtown Los Angeles and Santa Monica. Though a detailed map of this resource was not available and Dudek could not verify its location in aerial imagery, the railroad right-of-way is adjacent to and roughly 60 feet south of the proposed SM-8 well site and 90 feet south of the proposed SM-10i well site. Section 6.1 (Impacts Discussion) provides an analysis of potential project-related impacts with respect to this adjacent resource.

The Arcadia WTP and Olympic Boulevard Well sites were evaluated as part of the current study and appear not eligible for the NRHP, CRHR, or as a City of Santa Monica Structure of Merit or Landmark due to a lack of significant historical associations, integrity, and architectural merit. Therefore, these properties are not considered historical resources for the purposes of CEQA. No management recommendations are required for cultural resources.

6.1 Impacts Discussion

No historical resources were identified within the Project site as a result of the current study. However, one previously recorded historical resource was identified in close proximity to the Project site: the Santa Monica Air Line (P-19-003803), located roughly 60 feet south of the proposed SM-8 well site and 90 feet south of the proposed SM-10i well site, within the railroad right-of-way. The proposed Project will not demolish, relocate or cause any direct change to the resource which would result in a substantial adverse change as defined in CEQA guidelines §15064.5.

Potential Indirect Impacts

The Project proposes to construct the well completion equipment for four (4) new groundwater wells (SM-8, SM-9, SM-10i, and SM-11i),, and decommission one groundwater well (SM-3) in the median of Olympic Boulevard. SM-10i would be located west of the intersection of Olympic Boulevard and 26th Street, and SM-8 would be located approximately 1,400 feet east of SM-10i and west of the intersection of Olympic Boulevard and Stewart Street. These two proposed well locations are adjacent to the Santa Monica Air Line right-of-way, however, the new well sites are proposed more than 50 feet north of the Santa Monica Air Line, and will consist of a mostly subsurface structure, with low-profile equipment on the surface, just above grade. This Santa Monica Air Line is eligible under Criterion A for its significant role in the creation and development of the City of Santa Monica, and as an important commuter rail system that served to sustain a critical connection between downtown Los Angeles and Santa Monica. The proposed new well construction will be low-profile and is consistent with the overarching industrial and

municipal uses of the surrounding area, including the historical industrial, railroad adjacent setting still extant along this segment of Olympic Boulevard. Therefore, the Project, as proposed, will not diminish the setting of the adjacent Santa Monica Air Line segment and will not impact the ability of the resource as a whole to convey its significance.

No other adjacent resources were identified as a result of the records search or survey that could be indirectly impacted by the proposed Project. The proposed replacement of the equipment within the Decarbonator Building may result in the placement of new larger air stripping towers, which could be 4 to 5-feet taller than the existing RO Building height. However, this potential height increase would not result in a change in the character or use of the site, would not cast shadows on adjacent land uses, and would not result in a visual intrusion to any potential nearby historical resources. The Arcadia WTP will continue to operate but will feature new buildings that will be comparable size and scale to existing buildings on site. The proposed Olympic pipeline segment will remain entirely within the street right-of-way, will be entirely subsurface, and will have no impact to adjacent buildings and structures along the pipeline route. The pipeline work proposes no modifications to existing streetscape features.

As a result, the proposed Project will have a less than significant impact on historical resources under CEQA. No further management recommendations are required for this adjacent resource.

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Appendix A

Preparers' Qualifications

Kate Kaiser, MSHP

Architectural Historian

Kate Kaiser is an architectural historian with 7 years' professional experience as a cultural resource manager specializing in California Environmental Quality Act (CEQA) compliance, National Historic Preservation Act Section 106 compliance, reconnaissance and intensive level surveys, archival research, cultural landscapes, and GIS. Ms. Kaiser has worked as an archaeological technician for the National Park Service and USDA Forest Service.Ms. Kaiser meets the Secretary of the Interior's Professional Qualification Standards for both architectural history and archaeology.



Kate Kaiser

Education

University of Oregon
MS, Historic Preservation, 2017
Boston University
BA, Archaeology, 2009

Professional Affiliations

Association for Preservation Technology – Southwest
California Preservation Foundation
Vernacular Architecture Forum

Project Experience

Northside Specific Plan Draft EIR, City of Riverside, Riverside County, California (ongoing). Kaiser served as architectural historian and author of the Draft EIR Cultural Resources Chapter developed for City of Riverside's Northside Specific Plan. The cultural resource chapter documented record search results, developed a historic context for the Specific Plan Area, and developed impacts analysis and mitigation measures for the future development of the Northside Specific Plan Area.

LADWP City Trunkline South Project, Los Angeles Department of Water and Power, California (ongoing). Served as architectural historian and author of the Cultural Resources Technical Report for the City Trunkline South Project. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and State of California Department of Parks and Recreation Series 523 forms (DPR forms) for buildings and structures in the APE. The project proposed to replace sections of the pipeline in located in the Coldwater Canyon Road area of the San Fernando Valley. The report analyzed the vibration effects of pipeline replacement and pipe-jacking practices expected as part of the Trunkline project.

LADWP Western District Yards Project, Los Angeles Department of Water and Power, California (ongoing). Served as architectural historian and author of the Cultural Resources Technical Report for the Wester District Yards Rehabilitation Project. The report evaluated the historical significance for each building of the project. The project proposed to demolish 11 buildings and structures constructed between 1946 and 2007.

LADWP Valley Generating Station Project, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the Cultural Resources Technical Report for the Valley Generating Station Project. The report evaluated the historical significance for each building and structure in the study area. The project proposed to remove the 1953 steam generating plant, as well as the four stacks, SPRR rail spur, and underground fuel tanks.

LACSD Gardena Pumping Station Project, Sanitation Districts of Los Angeles County, Gardena, California. Served as architectural historian and author of the Cultural Resources Technical Report for the Gardena Pumping Project. The report evaluated the historical significance for each building of the project. The project proposed to remove the 1929 and 1960 pumping plant above and below-ground structures, as well as two adjacent parcels containing commercial buildings (1954, 1957) and replace them with a larger capacity pumping plant facility.

Phillips 66 and Kinder Morgan Relocation Project, Berths 150-151, Marine Oil Terminal Engineering and Maintenance Standards (MOTEMS), Port of Los Angeles, California. Served as architectural historian and co-author of the Updated Historical Resources Evaluation Report for the Phillips 66 and Kinder Morgan Relocation Project. Preparation of the report involved reviewing previous evaluations for Union Oil Terminal Berths 150-151 and writing an updated significance evaluation. The project proposed to remove and replace the original wharfs with new concrete loading platform, mooring and breasting dolphins, access ramps, catwalks, and an underwater bulkhead.

LADWP De Soto Tanks Project, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the Historic Properties Identification Report for the De Soto Tanks EIR. The report evaluated the historical significance for each building and structure of the project. The project proposed to remove the 1941 reservoir and associated buildings, and replace them with two modern underground storage tanks, as well as connections to the LADWP Rinaldi Trunk Line and De Soto Trunk Line.

LADWP Tujunga Spreading Grounds Enhancement, Los Angeles Department of Water and Power, California. Served as architectural historian and author of the cultural resources report CEQA-Plus Project. The report evaluated the historical significance for each building of the project. The evaluation found the property ineligible under all NRHP, CRHR, and Los Angeles Historic-Cultural Monuments designation criteria. The project proposed to modify a U.S. Army Corps of Engineer-owned flood control channel to divert more flood water from the Tujunga Flood Control Channel into the Tujunga Spreading Grounds.

Historic Resources Technical Report for the Silent Ranch Hillside Subdivision Project, City of Glendora, Los Angeles County, California. Served as architectural historian and author of the Historic Resources Technical Report for the Silent Ranch Hillside Subdivision Project. The report evaluated the historical significance for Charles Silent's Rancho Los Alisos property, Girl Scout Camp Aventura, Forest Service flood control crib dams and channels, and a segment of the MWD Upper Feeder Pipeline. Dudek recommended that all buildings and structures were ineligible for listing in the NRHP or CRHR with the exception of the MWD Upper Feeder Pipeline, which was recommended eligible under Criterion A/1/1. The project proposed indirect impacts to the setting of the pipeline and provided for protection against damage or overloading as the pipeline is an MWD public utility.

Campus-wide Historic Context Statement for California State University Long Beach, City of Long Beach, Los Angeles County, California. Served as architectural historian and co-author of the historic context statement report analyzing the effect of master architect Edward Killingsworth on the development of the campus. Preparation of the historic context statement involved extensive archival research, historic context development, in-person interviews of architects who worked on-campus, review of CSU Long Beach building and landscape records, and coordination with local heritage group, Long Beach Heritage.

Kaiser Permanente Los Angeles Specialty Medical Center Project, Los Angeles, Los Angeles County, California. Served as architectural historian and author of the Historical Resource Assessment for the Kaiser Permanente Los Angeles Specialty Medical Center at 755-765 W. College Street in Los Angeles. The report evaluated the historical significance for the medical center buildings and structures that are proposed for demolition as part of the multiphase project.

Adriane Gusick

Associate Archaeologist

Adriane Gusick is an associate archaeologist with more than 18 years of experience in cultural resource management specializing in cultural resource studies with private, state, and federal regulatory agencies including National Historic Preservation Act (NHPA) Sections 106 and 110 and California Environmental Quality Act (CEQA) compliance extending primarily throughout Southern California. She has worked directly with Bureau of Land Management, the California Public Utilities Commission, California State Parks, and various military installations including the Marine Corps Air Ground Combat Center at Twentynine Palms, Marine Corps Base (MCB) Camp Pendleton, Naval Base Coronado, and Navy Installation San Clemente Island. She has experience in all aspects of project development from initial research, planning, and development to interpreting and synthesizing data in technical reports. Ms. Gusick has acted as project manager and field director on complex data recovery programs, managed multiple archaeology laboratories, worked as liaison between Native American tribes and clients, and engaged in education and public outreach programs. In addition to Southern California, Ms. Gusick has worked as a consulting archaeologist in the southwestern United States, the Mid-Atlantic region, and New England.

Education

Catholic University of America, BA Anthropology, 2001

University of Oklahoma, BS Nursing, 2011

Certifications

City of San Diego Certified Archaeology and Paleontology Monitor

City of San Diego Certified Archaeology Crew Chief

Occupational Safety and Health Administration (OSHA) 10-Hour Construction Safety Training

OSHA 40-Hour Hazardous Waste Operations Worker (HAZWOPER) training

Registered Nurse

Wilderness First Responder

Relevant Project Experience

LADWP PP1&2 Transmission Line Conversion Project, Santa Clarita Valley, Los Angeles County, California. Dudek was retained by the Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for the Power Plant #1 and #2 to Olive #1 Transmission Line Conversion Project. LADWP is proposing to replace and convert an existing 120-mile length of 115 kilovolt (kV) double circuit transmission line between Haskell Canyon Switching Station and Olive Switching Station to a new 230 kV transmission line between Haskell Canyon Switching Station and Sylmar Switching Station. Ms. Gusick co-authored the report, in addition to performing archival research, conducting the pedestrian survey, providing Native American coordination, and recording newly identified cultural resources.

LADWP North Hollywood West Well Field Water Treatment Project, City of Los Angeles, Los Angeles County, California. Dudek was retained by LADWP to complete a cultural resources study for the North Hollywood West Well Field Water Treatment Project. LADWP proposes to implement a response action to address releases of 1,4-dioxane in groundwater that are migrating to the North Hollywood West Well Field by installing water treatment equipment at the well field capable of removing the 1,4-dioxane to below the identified cleanup levels. The regulatory framework is CEQA Plus, as such the project was also subject to compliance with Section 106 of the NHPA. Ms. Gusick co-authored the report, in addition to performing archival research, conducting the pedestrian survey, and providing Native American coordination.

LADWP Power Plant 1 Long Term Maintenance Program Project, Los Angeles County, California. Dudek was retained by LADWP to complete a cultural resources study for the Power Plant 1 Long Term Maintenance Program Project. LADWP proposes to develop a long-term operations and maintenance program for the Power Plant 1 hydroelectric facility, Power Plant 1, and its existing flood control infrastructure located in San Francisquito Canyon north of Santa Clarita. Ms. Gusick was lead author on the report, performed archival research, conducted the pedestrian survey, and recorded newly identified cultural resources.

LADWP Upper Stone Canyon Reservation Water Quality Improvement Project, City of Los Angeles, Los Angeles County, California. Dudek was retained by LADWP to complete a cultural resources study for the Upper Stone Canyon Reservation Water Quality Improvement Project. LADWP proposes to install an approximately 700,000-square-foot flexible membrane floating cover over the entire water surface of Upper Stone Canyon Reservoir and remove and replace the existing reservoir liner and appurtenant facilities. Ms. Gusick co-authored the report and conducted the intensive-level pedestrian survey.

LADWP Fish Creek Canyon Road Repair Project, Los Angeles County, California. Dudek was retained by LADWP to complete a cultural resources study for the Fish Creek Canyon Road Repair Project near Castaic, within the Angeles National Forest. LADWP proposes to repair a portion of Fish creek Canyon Road by removing the existing asphalt along the 84-feet length portion of the road and filling the area with compacted native materials. Ms. Gusick performed the archival research, provided Native American coordination, and conducted the intensive-level pedestrian survey.

Little Lake MDP Line B, Stage 1, Riverside County Flood Control and Water Conservation District, Riverside County, California. Ms. Gusick served as project archaeologist for the archaeological monitoring program during construction and maintenance of approximately 9,000 linear feet of storm drain facilities in San Jacinto and Hemet. Ms. Gusick was responsible for the evaluation and treatment of unanticipated discoveries and contributed to the Cultural Resources Monitoring Report.

Elsinore Valley Municipal Water District's Flagler Wells Conversion, Corona, California. Ms. Gusick served as cultural resources project director for the proposed construction of a potable water pipeline servicing the City of Corona, Riverside County. Ms. Gusick performed the CHRIS records search, Native American coordination, conducted the pedestrian survey, and authored the constraints report in accordance with CEQA guidelines.

Cultural Resource Study, Padre Dam Municipal Water District, San Diego County, California. Ms. Gusick served as associate archaeologist tasked with field excavation, GIS mapping, site recordation, strategy coordination with Native American groups, and laboratory analysis.

Cultural and Paleontological Resource Study for the City of San Diego Reclaimed Water Distribution System Project, San Diego, California. Ms. Gusick served as archaeological and paleontological monitor for the City of San Diego's continuing annual water and sewer main replacement program. Examples of projects include:

- Sewer and Water Group 683A
- Sewer and Water Group 676
- Sewer and Water Group 796
- Sewer and Water Group 741
- Sewer and Water Group 718
- Sewer Pump Station 19 Replacement

Samantha Murray, MA

Historic Built Environment Lead / Senior Architectural Historian

Samantha Murray is a senior architectural historian with 13 years' professional experience in in all elements of cultural resources management, including project management, intensive-level field investigations, architectural history studies, and historical significance evaluations in consideration of the California Register of Historical Resources (CRHR), the National Register of Historic Places (NRHP), and local-level evaluation criteria. Ms. Murray meets the Secretary of the Interior's Professional Qualification Standards for both Architectural History and Archaeology. She is experienced managing multidisciplinary projects in the lines of transportation, transmission and generation, federal land management, land development, state and local government, and the private sector. She has experience preparing environmental compliance documentation in support of projects that fall under the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), and Sections 106 and 110 of the National Historic Preservation Act (NHPA).

Education

California State University, Los Angeles
MA, Anthropology, 2013

California State University, Northridge
BA, Anthropology, 2003

Professional Affiliations

California Preservation Foundation

Society of Architectural Historians

National Trust for Historic Preservation

Registered Professional Archaeologist

Relevant Project Experience

Kaiser Permanente Los Angeles Specialty Medical Center Project, Los Angeles, Los Angeles County, California (2019). Dudek prepared a Historical Resource Assessment for the Kaiser Permanente Los Angeles Specialty Medical Center at 755-765 W. College Street in Los Angeles. Preparation of the report involved extensive archival research, reconnaissance level fieldwork, historic context development, building development descriptions, historical significance evaluations for buildings greater than 45-years in age, and DPR forms for the medical center buildings and structures that are proposed for demolition as part of the multi-phase project. As a result of the evaluations, all buildings were found not eligible for designation under all applicable national, state, and local designation criteria and integrity requirements. Ms. Murray provided QA/QC of the report and guidance on approach.

Kaiser Permanente Los Angeles Medical Center Project, Los Angeles, Los Angeles County, California (2018). Dudek prepared a Cultural Resources Report that involved extensive archival research, reconnaissance level fieldwork, historic context development, building development descriptions, historical significance evaluations, and DPR forms for six buildings greater than 45-years in age that are proposed for demolition as part of the multi-phase project. As a result of the evaluations, all buildings proposed for demolition were found not eligible for designation under all applicable national, state, and local designation criteria and integrity requirements.

LACSD Gardena Pumping Station Project, Sanitation Districts of Los Angeles County, Gardena, California (2019). Dudek prepared a Cultural Resources Technical Report for the Gardena Pumping Project. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and State of California Department of Parks and

Recreation Series 523 forms (DPR forms) for each building of the project. The project proposed to remove the 1929 and 1960 pumping plant above and below-ground structures, and two adjacent parcels containing commercial buildings (1954, 1957) and replace them with a larger capacity pumping plant facility. Ms. Murray provided oversight of all built environment components and provided QA/QC of all documents.

LADWP De Soto Trunk Line Project, City of Los Angeles, Los Angeles County, California (2018). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for the De Soto Trunk Line Project. LADWP is proposing the replacement of portions of four existing water pipelines: De Soto, Roscoe, Canoga Topham, and Ventura Trunk Lines. LADWP is proposing to replace these segments with new pipeline. The regulatory framework is CEQA Plus, as such the project was also subject to compliance with Section 106 of the NHPA. Ms. Murray provided QA/QC of the cultural resources report.

The Santa Monica City Yards Master Plan Project, City of Santa Monica, Los Angeles County, California (2017). The City of Santa Monica retained Dudek to complete a cultural resources study for the proposed City Yards Master Plan project site located at 2500 Michigan Avenue in the City of Santa Monica. The study involved evaluation of the entire City Yards site, including two murals and a set of concrete carvings for historical significance and integrity. As a result, the City Yards and its associated public art work was found ineligible under all designation criteria.

LADWP West Los Angeles District Yard Project, City of Los Angeles, Los Angeles County, California (2017). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes demolition of five LADWP-owned administrative buildings and warehouses at the West Los Angeles District Headquarters located at 12300 West Nebraska Avenue. Dudek evaluated the yard for historical significance in consideration of NRHP, CRHR, and City of Los Angeles HCM criteria and integrity requirements.

LADWP Haynes Generating Station Units 3 through 6 Demolition Project, City of Long Beach, Los Angeles County, California (2017). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes demolition of Units 3-6 at the LADWP Haynes Generating Station. Ms. Murray evaluated the entire steam plant for historical significance in consideration of NRHP, CRHR, and City of Long Beach designation criteria and integrity requirements, and co-authored the cultural resources report.

LADWP Green Verdugo Reservoir Improvement Project, City of Los Angeles, Los Angeles County, California (2017). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes facility updates at the reservoir site in order to ensure safe water quality. Ms. Murray evaluated the reservoir for historical significance in consideration of NRHP, CRHR, and City of Los Angeles HCM designation criteria and integrity requirements, and co-authored the cultural resources report.

LADWP Upper Stone Canyon Reservoir Water Quality Improvement Project, City of Los Angeles, Los Angeles County, California (2016). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for a project that proposes to maintain and improve the quality, reliability, and stability of the Stone Canyon Reservoir Complex (SCRC) service area drinking water supply. Dudek prepared an updated evaluation of the reservoir in consideration of NRHP, CRHR, and City of Los Angeles HCM criteria and integrity requirements.

LADWP Power Plant 1 Long-Term Maintenance Program Project, City of Los Angeles, Los Angeles County, California (2016). Dudek was retained by Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for the proposed long-term maintenance of the flood control infrastructure in the vicinity of Power Plant 1. Ms. Murray prepared the cultural resources impacts assessment, co-authored the cultural resources report, and provided QA/QC of the cultural resources technical report.

Appendix B

Confidential Records Search Results

Appendix C

DPR forms

State of California ♘ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 30 ***Resource Name or #:** (Assigned by recorder) Arcadia Water Treatment Plant
P1. Other Identifier: Santa Monica Water Treatment Plant, Santa Monica Water Works

*P2. **Location:** ☐ **Not for Publication** ☐ **Unrestricted**
*a. **County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
*b. **USGS 7.5' Quad** Beverly Hills **Date** 1995 **T** 01S; **R** 15W; NE ¼ **of** NE ¼ **of Sec** 32; San Bernardino **B.M.**
c. Address 1228 S. Bundy Drive City Los Angeles Zip 90025
d. UTM: (Give more than one for large and/or linear resources) Zone 11S, 364654.68 mE/ 3767992.02 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
The Arcadia Water Treatment Plant (WTP) is located at on a 4.82-acre parcel at 1228 South Bundy Drive in the City of Los Angeles, in Los Angeles County, California. Although the Project site is located within City of Los Angeles, it is owned by City of Santa Monica. The Arcadia WTP site is approximately bound by South Saltair Avenue to the northeast, Texas Avenue to the southeast, South Bundy Drive to the southwest and (See Continuation Sheet)

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
During the course of the pedestrian survey, Dudek identified 31 total buildings and structures, of which 13 buildings and structures were over 40 years of age requiring recordation and evaluation for historical significance. These are described on the Continuation Sheet in a table. (See Continuation Sheet)

***P3b. Resource Attributes:** (List attributes and codes) HP9. Public Utility Building (See B11. Additional Resource Attributes

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:** ☒ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) Overview to Arcadia Water Treatment Plant from Bundy Drive, looking northeast

***P6. Date Constructed/Age and Source:** ☒ Historic ☐ Prehistoric ☐ Both
1904 (Evening Outlook 1975)

***P7. Owner and Address:**
City of Santa Monica
Public Works Department, Water Resources
1212 5th Street, 3rd floor
Santa Monica, CA 90401

***P8. Recorded by:** (Name, affiliation, and address) Kate Kaiser, Dudek
38 N. Marengo Avenue
Pasadena, CA 91101

***P9. Date Recorded:** 10/30/2019

***P10. Survey Type:** pedestrian

***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Kaiser, Kate, Adriane Gusick, and Samantha Murray. 2019. *Historical Resources Technical Report for the Olympic Well Field Restoration and Arcadia Expansion Project, City of Santa Monica, California*. Prepared by Dudek for the City of Santa Monica Public Works Department, Water Resources.

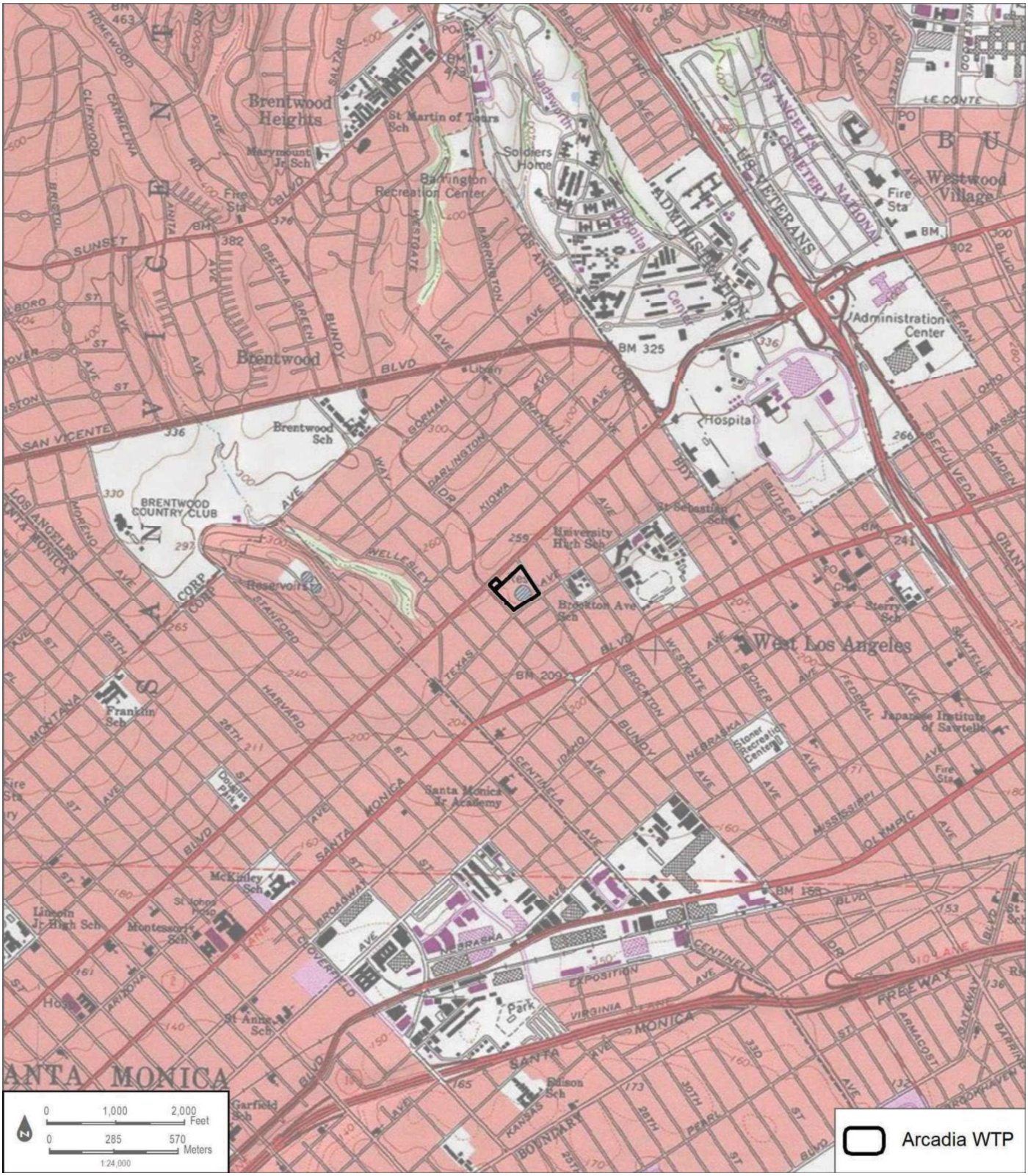
***Attachments:** ☐NONE ☒Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California ◆ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

Page 2 **of** 30 ***Resource Name or #** (Assigned by recorder) Arcadia Water Treatment Plant
***Map Name:** Beverly Hills, Calif. ***Scale:** 1:24,000 ***Date of map:** 1995



State of California ◆ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Arcadia Water Treatment Plant ***NRHP Status Code** 6Z
Page 3 **of** 30

B1. Historic Name: Arcadia Water Treatment Plant
B2. Common Name: Santa Monica Water Treatment Plant
B3. Original Use: groundwater storage and treatment B4. Present Use: groundwater treatment
***B5. Architectural Style:** utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)

The construction history of the extant buildings and structures at the Arcadia Water Treatment Plant are described in the Continuation Sheet, section P3a Description resource table. This table lists dates of construction, builder/contractor if known, and known alterations and dates. An additional development history is included on the Continuation Sheet, Section B6. Construction history. (See Continuation Sheet)

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____

***B8. Related Features:**

B9a. Architect: _____ **b. Builder**: _____

***B10. Significance: Theme** _____ **Area** _____

Period of Significance _____ **Property Type** _____ **Applicable Criteria** _____
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

(See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes) HP 22. Reservoir; AH3. Landscaping; AH5 Wells/Cisterns

***B12. References:**

(See Continuation Sheet)

B13. Remarks:

***B14. Evaluator:** Kate Kaiser, MSHP
***Date of Evaluation:** October 30, 2019

(Sketch Map with north arrow required.)

(See Continuation Sheet)

(This space reserved for official comments.)

P2e. Other Locational Data (Continued): Wilshire Boulevard to the northwest. The facility is located within a predominantly residential neighborhood in West Los Angeles, with commercial businesses and office buildings located to the north.
Assessors Identification Number (AIN): 4263-003-270
Elevation: 230 ft. amsl-245 ft. amsl
Decimal Degrees: 34°02'37.6"N 118°27'58.6"W

P3a. Description (Continued):

The buildings described below are listed in chronological order of construction and have building numbers that correspond to building numbers definied by the City of Santa Monica Water Department.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	**Engineer; Year Constructed**	**Description**	**Alterations**
Buildings and Structures over 40 years old			
Reservoir landscaping 	Unknown engineer; 1924	This landscaped slope is located northeast of the 5 million-gallon reservoir and slopes downhill towards Saltair Ave. The area is covered with grass lawn, and features a row of 8 immature trees.	Aerial photographs indicate that this area has had trees since the earliest available photo-graphs from 1927, and various numbers of mature trees were re-moved sometime between 1929 and 1934 and again between 1981 and 1983, and most recently in 2010

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
3. Water Storage Reservoir  	Unknown engineer; 1924	The Water Storage Reservoir is an in-ground concrete reservoir with a capacity for 5 million gallons. The Roughly 3 feet of the concrete reservoir wall, reservoir roof, off-gas system, and access scaffolding and metal walkways are the only above ground features. The visible reservoir wall is board formed concrete. The reservoir roof is wood, clad with rolled roofing with metal seams at the lip. A concrete gutter runs the circumference of the reservoir, just under the drip line. A metal water pipe also runs the circumference of the reservoir, just under the drip line	1981: Structural repairs to reservoir roof 1994: off-gas duct system added
20. Arcadia Groundwater Wells (Well No. 4) 	Circa 1928-1956	Arcadia Well No. 4 is located just north of the Chlorination Building and consists of a pumping apparatus over a raised concrete pedestal. The well structure extends below ground.	Well No. 4 had well house structure over it which was demolished by 1970

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
19. Electrical Equipment (Transformer Yard) 	Circa 1948-1956	While a transformer yard appears on the permit maps after 1956, the yard is absent from the 1948 Sanborn Fire Insurance Map. Transformer models could not be ascertained during field visit.	Addition (Building No. 11 Emergency Generator)
21. Chlorine Building  	Kirk B. Florence, 1956	The Chlorination Building is a flat roofed, rectangular plan building constructed of concrete masonry units (CMU), with a short parapet extending above roofline. Fenestration consists of a large roll-up metal garage door on the northwest elevation, two one-over-one aluminum sash windows on the northeast elevation, a metal door and one-over-one aluminum sash window on the southeast elevation, and three and one-over-one aluminum sash windows on the southwest elevation. Two metal scuppers and downspouts are visible on the southwest elevation.	Observed alterations: HVAC system, storage lockers, emergency eyewash added to sides and roof of building

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
26. 12035 Texas Avenue (Employee Housing)  	Wallie A Pollock (Architect); Bartlett L. Kennedy (Engineer), 1957	This employee house and integrated garage were built in 1957, and are irregular plan Ranch Style buildings. The building is clad with stucco and features a hipped roof with open eave. The main elevation (facing southeast to Texas Avenue) is the only visible and accessible elevation. The porch is a covered concrete stoop, with the roof supported by wood posts. Fenestration consists of aluminum sliding sash windows, a picture window framed by aluminum sliding sash windows to both sides, and porch integrated under the roof overhang. The garage features a wood, tilt-up garage door and no fenestration. No other elevations were visible during survey.	No observed or permitted alterations were noted for this building

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

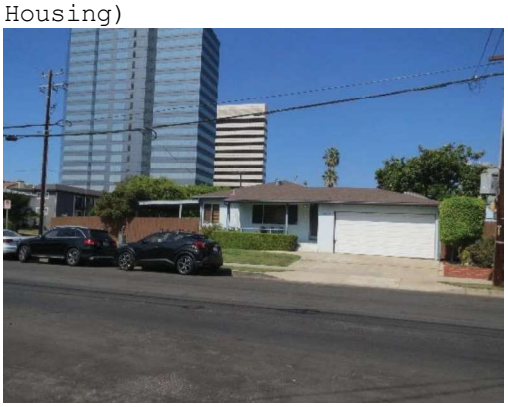
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
26. 12041 Texas Avenue (Employee Housing)  	Wallie A Pollock (Architect); Bartlett L. Kennedy (Engineer), 1957	This employee house and integrated garage were built in 1957, and are irregular plan Ranch Style buildings. The building is clad with stucco and features a hipped roof with open eave. The main elevation faces southeast to Texas Avenue, and features a covered, concrete stoop porch, with the roof supported by wood posts. Fenestration consists of aluminum sliding sash windows, a picture window framed by aluminum sliding sash windows to both sides and a screen door. The garage features a metal roll up garage door and no fenestration. No other elevations were visible during survey.	Observed alterations include the replacement of the garage door with a modern automatic roll up garage door and a large covered shed roofed awning attached to the southwest elevation of the house, providing a covered porch in the side yard. Additionally, skylights have been added to the roof in various locations
17. Booster Pumps 	Circa 1958	The Booster Pump station consists of a set of five horizontal metal pumps set into a concrete platform. Connected through pipes and four raised aluminum boxes. The pumping station first appears in aerials and on maps in 1958 and was likely installed in concert with the other 1958 improvements to the Arcadia property.	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
18. Staff Room/Conference Room (Garage) 	James M. Montgomery Consulting Engineers, Inc., 1958	This building is a rectangular plan, utilitarian style building, with a flat roof and parapet and constructed of concrete masonry units. Fenestration consists of two lite sliding metal sash windows and metal doors with single lites. A metal scupper and downspout are visible on the northwest elevation.	1970: Relocate overhead garage door from west to south elevation (Permit 1970WL82354)
22. MWD Vault Building (MCR Meter Building)  	James M. Montgomery Consulting Engineers, Inc., 1958	This building is a rectangular plan, utilitarian style building, with a flat roof and parapet and constructed of concrete masonry units. The above-ground portion, A component of this building is underground and features a concrete lined staircase with metal guard rails. The underground portion was not accessed during the field visit. Fenestration in the above-ground portion and consists solely of louvered vents. Fenestration in the below ground portion is limited to a metal, window-less door.	No observed or permitted alterations were noted for this building. The 1958 vault seems to have replaced an earlier vault placed between 1941 and 1956, referred to in maps and building plans as a "Venturi Vault"

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

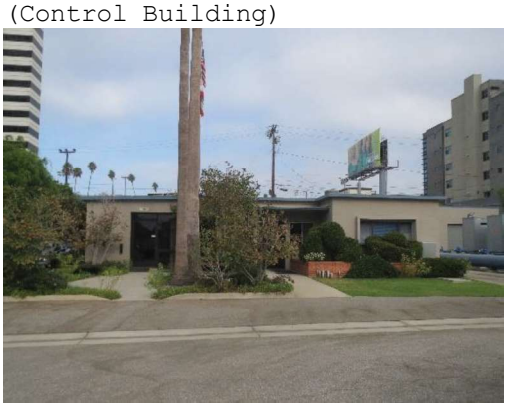
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
23. Administration Building (Control Building)  	James M. Montgomery Consulting Engineers, Inc., 1958	The Administration Building is a Mid-Century Modern Style office building, featuring a flat roof with slight overhang and CMU constructed walls. The main elevation faces southeast, and overlooks a small lawn, trees, landscaped plants, and planters. Fenestration consists of metal sash windows on the main elevation set into protruding concrete bezeled frames, and metal-framed glass doors. Fenestration on all other elevation consists of single lite fixed windows, metal doors with single lites, one over one metal sash windows, under awning hoods, consists of	Southwest Addition (c.1989-1994)
Meter and Valve Structures (located in trenching, construction, staging area) 	James M. Montgomery Consulting Engineers, Inc., 1958	Located near the southwest corner of the property, immediately north of the two employee residences along Texas Avenue. This consists of two in-ground concrete vaults with a metal lids. Vaults project roughly 8-12 inches above the surface and are situated in a grass lawn, they are connected to the remainder of the site by paved sidewalks.	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

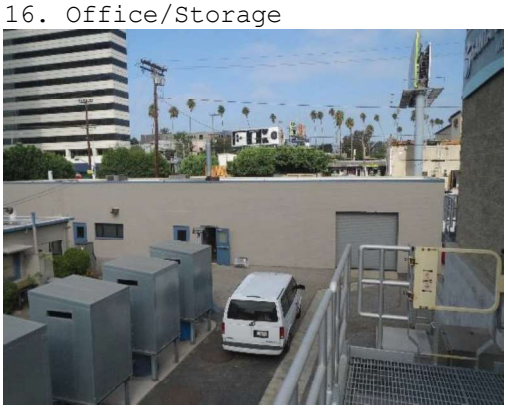
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
16. Office/Storage 	Ivan D. Goplen, 1970	This is a one-story rectangular plan, utilitarian building, featuring a flat roof with parapet and CMU construction. The main elevation faces southeast. Fenestration consists of fixed, single lite windows, solid metal doors, metal doors with single lites, and a metal roll-up garage door.	Addition on southwest elevation in circa 1981, 1983 (Building No. 24)
Buildings and Structures less than 40 years old			
24. Laboratory 	c. 1981-1983	This building is not a separate building, but a one-story rectangular plan, utilitarian addition to the 1970 office/storage building. Fenestration consists of fixed, single lite windows and solid, windowless metal doors. The northeast elevation abuts 19. Office Storage building.	Addition to Building No 16. Office/Storage
5. Maintenance Building (Garage Building) 	City of Santa Monica Water/Waste Water Division, 1986	This building is a 25 foot by 60 foot vehicle storage building, with a flat roof and parapet. The rear and side elevations are banked into the artificial hillside of the reservoir. The main elevation features three roll-up garage doors and one solid metal door. The building is constructed of 4" concrete masonry unit block.	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
Driveway to Saltair Ave exit 	Unknown, c.1989-1994	This pavement is a standard 2-line width, unlined asphalt road connecting the parking and activity area near the control room and pumps to Saltair Avenue. Previously, pavement extended no further than the northern extend of Building 11. Greensand Filter Complex, which was the former location of the water softening plant. It was added to the property some time between 1989 and 1994, corroborated by aerial photographs.	2010: resurfaced during City of Santa Monica Civil Engineering; Black & Veatch Corporation Well Field Restoration Project
11. Emergency Generator 	City of Santa Monica General Services Department Engineering Division; 1992	The emergency generator is housed in a metal trailer located southwest of the 5 million gallon reservoir.	Paved generator pad added in 2010 during City of Santa Monica Civil Engineering; Black & Veatch Corporation Well Field Restoration Project

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

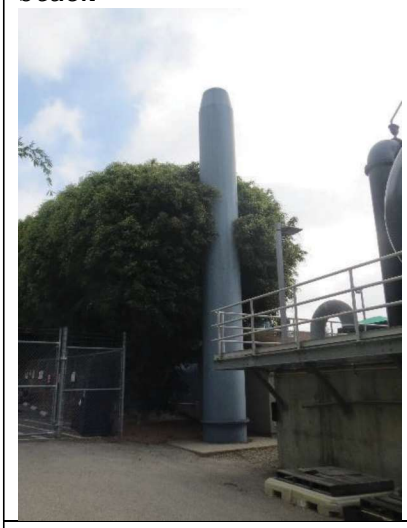
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
Stack 	Kennedy/Jenks / Clinton; 1994	35-foot high, by 4-foot diameter Welded Steel Pipe off gas stack with steel flanges bolted together between sections. Tapers slightly at the top to a 3 foot opening	No observed or permitted alterations were noted for this structure.
4. Outdoor Chemical Feed Facility 	Kennedy/Jenks / Clinton; 1994	The outdoor chemical feed facility consists of three blue metal cisterns, located just northwest of the GAC scrubber structure	No observed or permitted alterations were noted for this structure.
4. GAC Scrubber 	Kennedy/Jenks / Clinton; 1994	The GAC Scrubber structure consists of a rectangular plan CMU structure with three open-ended bays facing southeast. The open-ended bays are loosely covered in canvas cloth and have large metal ducts leading through them.	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
6. Storage Building 	Kennedy/Jenks / Clinton; 1994	The storage building is a rectangular plan, gable ended stucco-clad building behind (west of) the GAC Scrubber Building. Fenestration consists only of a metal door with louvered vent on the northeast side.	No observed or permitted alterations were noted for this structure.
1. RO Building 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The RO (Reverse Osmosis) Building is located in the north corner of the property and consists of a steel framed building with a semi-circular metal roof, clad with a prefinished metal wall panel system. Fenestration consists of metal doors, fixed single-pane windows, louvered vents, and four large bays with roll-up metal doors on the northeast elevation facing Saltair Avenue.	No observed or permitted alterations were noted for this structure.
2. Decarbonator 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Decarbonator Building is a solid concrete platform pad with no fenestration. The building has a meta stair attached to the northwest elevation and has equip-ment, ducts and cisterns atop it. The platform also has a metal rail along the outer edge, and a green awning on the southwest elevation, sheltering electrical equipment and chemical stores.	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
7. Cartridge Filter 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The cartridge filers consists of four cartridge filters on a short (8-inch height) concrete pad, immediately northeast of the greensand filter complex.	No observed or permitted alterations were noted for this structure.
8. Greensand Filter Complex 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Greensand Filter Complex is a series of open-air filtration equipment set atop a concrete pad. The structure is bordered by the alley to the northwest, cartridge filter structure to the northeast chemical storage and garage buildings to the southeast, and electrical building to the southwest.	No observed or permitted alterations were noted for this structure.
9. Chemical Storage Building 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	This building is a gable-ended, rectangular plan steel framed utilitarian building, clad with prefinished metal roof panels, and clad with metal screens to allow ventilation. A Shed roofed portion of the building is on the northeast elevation. Fenestration consists of two roil up garage doors on the northeast elevation, metal doors on the northwest, and southeast elevations.	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

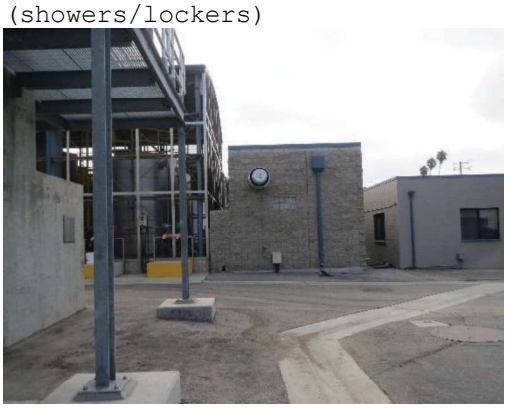
Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
10. RO Feed Pumps 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The RO Pump building (formerly the Fluoride Building) consists of a steel framed building with a semi-circular metal roof, clad with a prefinished metal wall panel system. Fenestration consists of metal doors on the northwest and northeast elevations and one roll-up metal door on the norhwest elevation	No observed or permitted alterations were noted for this structure.
12. Staff Facilities (showers/lockers) 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Staff Facilities and Locker Building is a rectangular plan, flat roofed building with parapet, with split face CMU wall construction topped with metal coping. Fenestration consists of metal doors and 8”x8” glass block windows on the southeast, southwest and northwest elevations. The building is situated between the 12. Chemical Storage Building and the 21. Staff Room/Conference Room (Garage)	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
13. Electrical Building and Inlet Valve 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	The Electrical Building and Inlet Valve structure at attached to the northwest elevation of the 11. Greensand Filter Complex. The Electric Building is a rectangular plan, flat roofed building with parapet, set atop a smooth concrete platform pad, with split face CMU wall construction topped with metal coping. The building is accessed by a metal stair and railing leading to the operating floor of the concrete pad. Fenestration consists only of metal doors on the northwest and northeast elevations. A fan providing ventilation and a signboard reading "Santa Monica Water Treatment Plant" is attached to the exterior of the southwest elevation.	No observed or permitted alterations were noted for this structure.

Table 1. Surveyed Resources at the Arcadia Water Treatment Plant

Building Name, Map Key building number	Engineer; Year Constructed	Description	Alterations
14. Washwater Recovery System and Tank 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	This structure is set atop the concrete pad operating floor of the 11. Greensand Filter Complex. It consists of a square-shaped welded steel tank with horizontal ribbing and an inlet pipe, and a chevron shaped welded steel tank with horizontal ribbing and an inlet pipe.	No observed or permitted alterations were noted for this structure.
15. Empty Storage Building 	City of Santa Monica Civil Engineering; Black & Veatch Corporation; 2010	This building is a square plan, gable ended small building situatied between the booster pumps and electrical room building pad. The building is clad with T1-11 plywood panels, and prefabricated standing seam metal roofing. Fenestration consists of a metal door on the main (southwest) elevation and louvered vents.	No observed or permitted alterations were noted for this structure.

B6. Construction History (Continued): The original owners of the 1228 S. Bundy Avenue parcel was the privately-owned Santa Monica Water Company. The company officially formed in 1897, an offshoot of the Santa Monica Land & Water Company, which was a real estate development company that had promoted settlement in Santa Monica in the 1880s. The holdings included reservoirs on a 30-acre tract, which held the San Vicente rancho springs, several tunnel wells, and gravity fed pipelines back to Santa Monica, as well as a reservoir at Nevada Avenue (Wilshire Boulevard) and 26th Street (LAH 1893a, 1893b; Sanborn 1902, 1909).

The Santa Monica Water Company acquired the parcel in Sawtelle at the corner of Nevada Boulevard (Wilshire Boulevard) and Arcadia Street (Bundy Street) in 1904, when the Santa Monica Land & Water Company purchased 30,000 acres from Senator John P. Jones and Arcadia Bandini de Baker. The purchase furnished more water bearing lands for the company as well as a model village, an electric rail line right of way, and for Santa Monica more pleasure resorts. The parcel originally held a pumping station, small in-ground reservoir, and several wells. By 1910, new wells were being placed at the "Arcadia Tract" followed by more still in 1912, driven to a depth of 300 feet. In 1913, the company reported to have 68 miles of water main, three reservoirs with a total storage capacity of 2,500,000 gallons, five wells, and two 100 horsepower pumps located at the Arcadia Pumping Station, which served 1,835 customers (LAT 1904b, 1910; Santa Monica Outlook 1912, 1913).

In 1916, the Arcadia property and all holdings of the Santa Monica Water Company were acquired by the City of Santa Monica. The property is specifically mentioned as an incentive for the City of Santa Monica to purchase the Santa Monica Water Company holdings in 1915. According to the Santa Monica 1918 Sanborn map, report for water facilities, Arcadia Pumping plant had six bored wells and electric drive pumps, a pump house and a guardhouse. Water from the Arcadia tract was pumped down the Wilshire Boulevard main to the 1,300,000-gallon No. 1 Reservoir at Wilshire and 26th Street. The property first appears in the 1921 Sawtelle Sanborn Fire Insurance Map. In 1924, the 5 million gallon reservoir was added to the Arcadia Pumping Plant site (Figure 5) (LAT 1915a, 1915b, 1915c, 1916a, 1916b, 1924; Sanborn 1921, 1924; Santa Monica Outlook 1915).

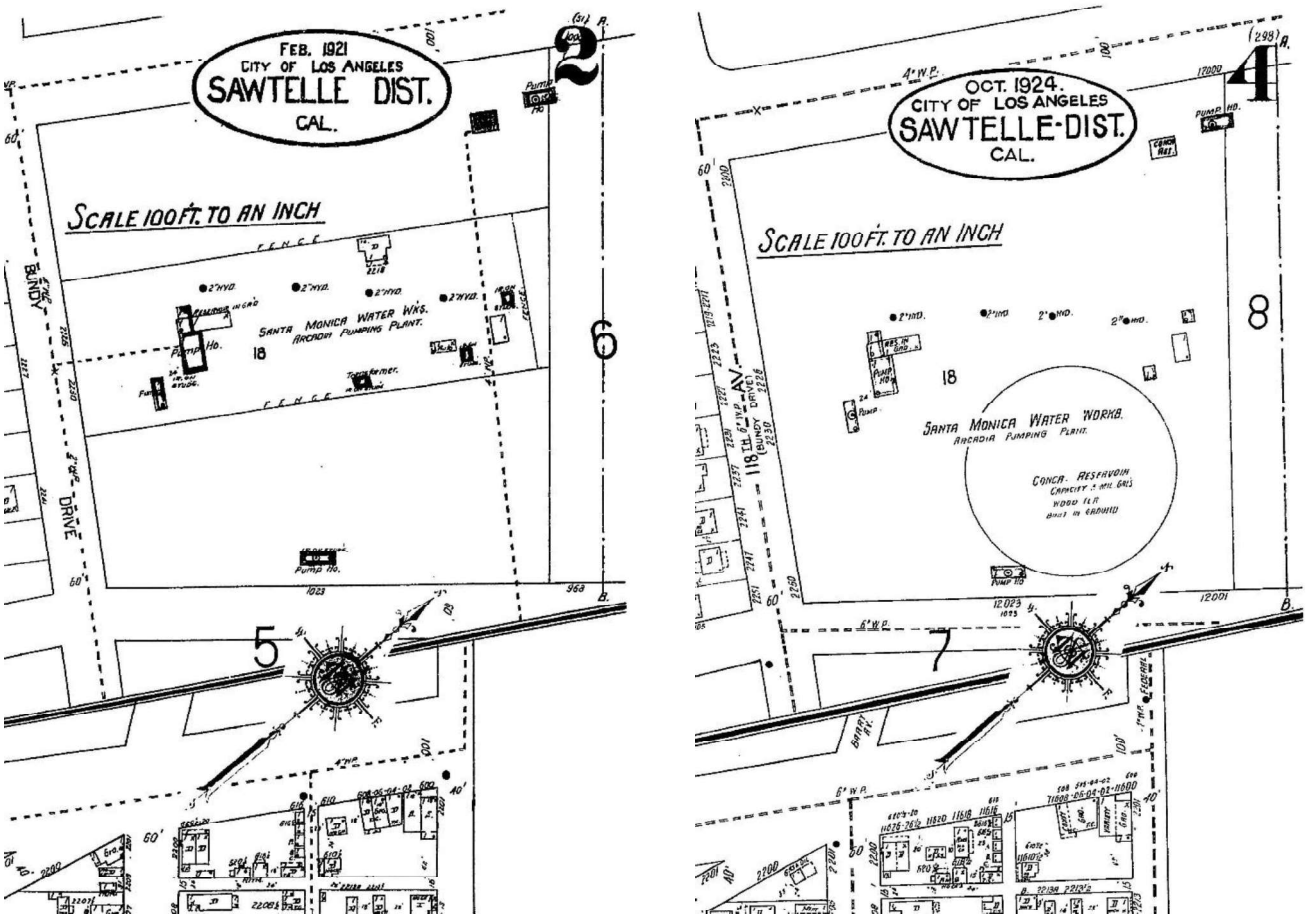


Figure 1. Sanborn Fire Insurance maps depicting Arcadia Pumping plant in 1921 (left) and 1924 (right). Note addition of 5 million gallon reservoir in 1924 image (Sanborn 1921, 1924)

In the mid-1940s, a vault allowing MWD water to enter the plant was added at the Arcadia Pumping Plant parcel. At the time, the Arcadia plant's connection was the only point at which MWD water could reach the city's system. Another connection point at Charnock Well Pumping Plant was added in 1949. In 1956, a Chlorination Building was added to the plant (Permit 1956WL18112) (Figure 6). In 1957, The City consulted with engineering firm James M. Montgomery Inc. to begin studying improvements for the Arcadia Pumping Plant. These included two new houses for water department employees along Texas Avenue, a Water Pumping Plant Control Building, a garage, a new meter structure, a new valve structure, valve manholes, and a new Venturi meter structure for the MWD pipeline connection. In 1958, the City of Santa Monica gave the city's water system a $2,700,000 overhaul, including increasing the capacity at the Charnock Pumping Station (LAT 1957, 1958; Permits 1958LA07347, 1958LA07348, 1958LA07350, 1958LA07351, 1958WL07346, 1958WL07349).

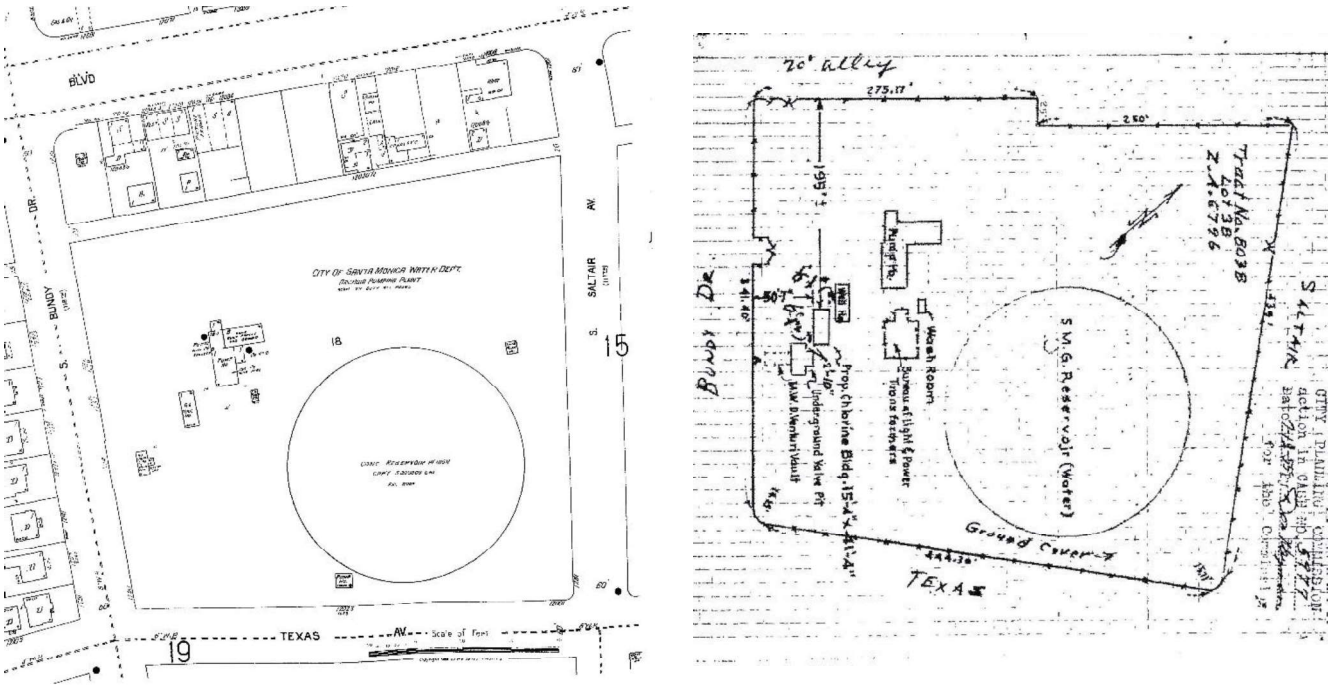


Figure 2. Maps depicting Arcadia Pumping plant in 1944 (left) and 1956 (right). Both maps oriented so Wilshire Boulevard is at the top (Sanborn 1944; Permit 1956WL18112)

In 1964, the City of Santa Monica again hired the engineering firm of James M. Montgomery to design facilities for an 800,000 water softening and filtration plant at the Arcadia Pumping Plant site. The City had been mixing harder well water with treated, softer MWD water for decades before upgrading their system. This came amidst price hikes from MWD and the City of Santa Monica promoting self-reliance on their own wells (Figure 7). (LAT 1964, 1966; Montgomery 1966).

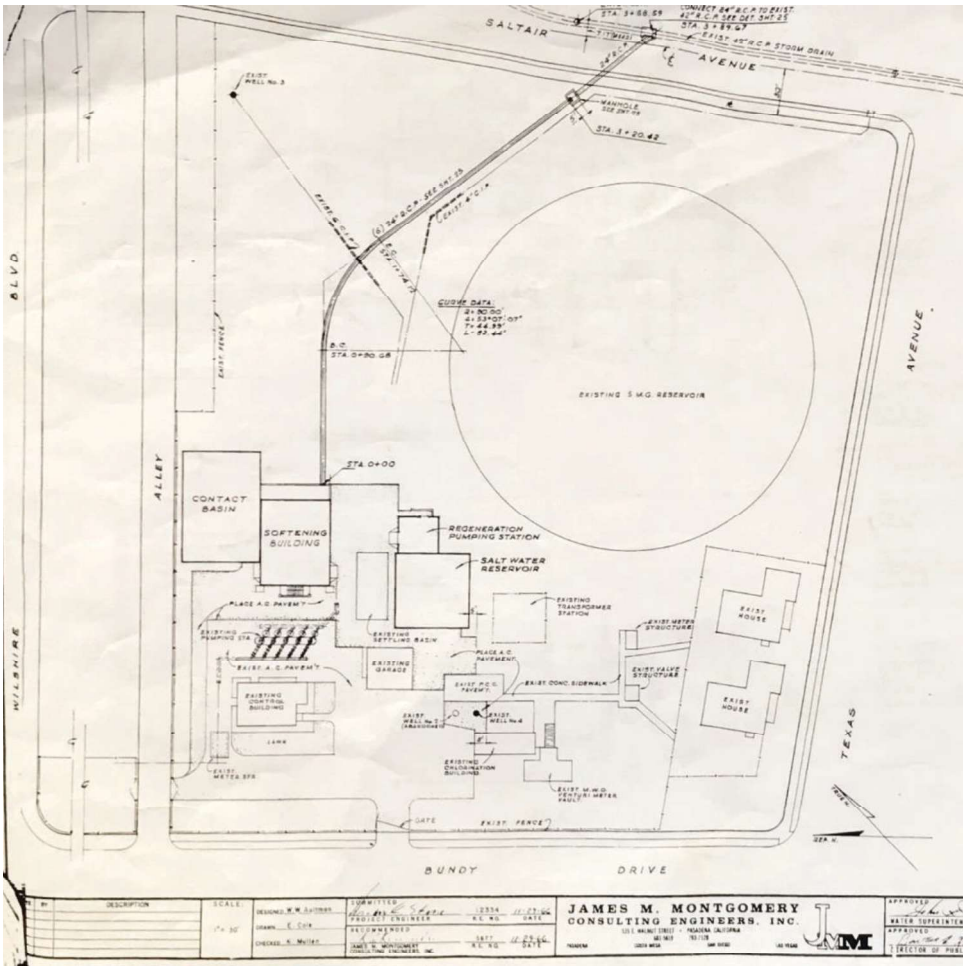


Figure 3. Plan map of the Arcadia Water Treatment Plant South elevation, James M. Montgomery, Consulting Engineers, Inc., 1966. Map oriented so Wilshire Boulevard is at left (Montgomery 1966)

A few piecemeal equipment structures and buildings were added to the property between 1964 and 2010. In 1970, a separate laboratory building was added to the facility. In 1986, a maintenance garage was added. In the 1990s the engineering firm Kennedy Jenks Clinton consulted with the City of Santa Monica for a project to install a stack, outdoor chemical feed facility GAC scrubber and off-gas system for the 5-million gallon reservoir (City of Santa Monica Records held at Arcadia WTP).

In 1996, an intrusion of the chemical MTBE was detected in the Santa Monica well water supply. The source of the contamination came from a leaking, below ground gasoline storage tank owned by Mobil Oil. The City of Santa Monica sued Mobil and eventually sought relief for decontaminating the wells and associated water treatment equipment. As part of the settlement, the City of Santa Monica Public Works Department also gained funding to make significant improvements to the Charnock and Arcadia Plants. At Arcadia, this happened in 2010 when the Contact Basin building, softening building, salt water reservoir, regeneration pumping station, and settling basin, and associated cover buildings were all demolished (ARG/HRG 2018; LAT 1996, 1997; SA Associates 2010).

B10. Significance (Continued):
The Arcadia WTP parcel, located at 1228 South Bundy Drive (APN 4263-003-270), was originally developed in 1904 and had water infrastructure installed at it, including several wells,

by 1910. Nearly all original development has been demolished, leaving only later developments, the earliest of which is the 1924 5-million gallon reservoir, and a few 1958 and 1966 historic-age buildings. The site has had several modern development periods, with 4 buildings added in 1994 and 10 buildings added in 2010.

NRHP/CRHR Designation Criteria

The following provides an evaluation of the Arcadia WTP property at 1228 South Bundy Drive in consideration of NRHP and CRHR designation criteria and integrity requirements.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Archival research did not find any association with events that have made significant contributions to the broad patterns of local or regional history. The Arcadia WTP parcel was first developed in 1904, and the City of Santa Monica acquired the parcel from private water company Santa Monica Water Company in 1916. The 5-million gallon reservoir was added in 1924, and all buildings on site were introduced after 1956. However all original infrastructure from the 1904-1916 private water company period has been lost as of 2010, and the remaining buildings and structures are not associated with any specific patterns of history within Santa Monica. Additionally, the Arcadia WTP is not known to be directly associated with events that have made a significant contribution to the history of the State or nation. Therefore, the property does not appear eligible under NRHP/CRHR Criterion A/1.

Criterion B/2: That are associated with the lives of persons significant in our past.

Archival research did not indicate that the Arcadia WTP is associated with any historically significant figures at the national, State, or local level. Therefore, the property does not appear eligible under NRHP/CRHR Criterion B/2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

The Arcadia WTP property was originally developed in 1904, however, all known infrastructure from this period have been demolished. The oldest structure at Arcadia WTP is from 1924, and the majority of structures were added between 1956 and 1964. The 1924 reservoir, and all buildings and structure added to the site between 1956 and 1966 are utilitarian in construction and lack a cohesive, specific architectural style. Most buildings and structures are constructed of either metal or concrete masonry units and are otherwise unremarkable in their construction methods and architectural style. The buildings and structure at Arcadia WTP do not possess high artistic value. The known engineer associated with buildings developed between 1956 and 1966 at Arcadia WTP was James M. Montgomery, consulting Engineers, Inc. however, it is unlikely that Montgomery himself was consulting and designing buildings for this plant as his name is specifically not on records. Montgomery and his firm are strongly associated with the development of water infrastructure in Southern California, and in later years throughout the United States, however there is nothing at the Arcadia WTP that specifically recalls an association with the firm. Further, many of the firm's buildings were removed in 2010 when much of the plant was redeveloped. Though Montgomery himself may be considered a master engineer with a specific water infrastructure focus, his consulting firm may not be considered master engineers. Overall, the buildings and structure at Arcadia WTP are simplistic and utilitarian in design. Therefore, the

property does not appear eligible under NRHP/CRHR Criterion C/3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The Arcadia WTP property is not significant as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies. Therefore, the property does not appear eligible under NRHP/CRHR Criterion D/4.

City of Santa Monica Structure of Merit Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the Arcadia WTP at 1228 South Bundy Drive does not appear eligible under any of the City of Santa Monica Structure of Merit criteria, as described below:

The structure has been identified in the City's Historic Resources Inventory.

The Arcadia WTP at 1228 South Bundy Drive is not currently listed in the City's Historic Resources Inventory.

The structure is a minimum of 50 years of age

The Arcadia WTP at 1228 South Bundy Drive was originally developed in 1904, but all original buildings and structures have been removed. The oldest structure remaining at the Arcadia WTP is the 1924 5-million gallon reservoir. The remaining buildings and structures were added to the site after 1956.

and meets one of the following criteria:

1. *The structure is a unique or rare example of an architectural design, detail or historical type.*

The buildings and structures at the Arcadia WTP at 1228 South Bundy Drive are utilitarian in construction and are not unique or rare examples of an architectural design, detail or historical type.

2. *The structure is representative of a style in the City that is no longer prevalent.*

Utilitarian structures housing utilities are not a style in the City that is not longer prevalent. Utilitarian structures have been constructed at the Arcadia WTP as recently as 2010 and the practical of the style persists as a cost-effective and functional architectural style.

3. *The structure contributes to a potential Historic District. (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015)*

The Arcadia WTP at 1228 South Bundy Drive does not contribute to a potential historic district as defined in Ord. No. 2486CCS §§ 1, 2.

City of Santa Monica Landmark Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the Arcadia WTP at 1228 South Bundy Drive does not appear eligible under any of the City of Santa Monica Landmark or Historic District criteria, as described below:

1. *It exemplifies, symbolizes, or manifests elements of the cultural, social, economic, political or architectural history of the City.*

The Arcadia WTP at 1228 South Bundy Drive is one of several pumping plants and well sites originally developed by a private water company in the early twentieth century. It is neither the oldest such site associated with private water companies in Santa Monica, nor with the oldest water company operating in the region. The plant was also one of several private water company holdings sold to the City of Santa Monica in 1916 and developed into municipal water infrastructure, including wells, treatment plants, and pumping stations. The buildings and structure at Arcadia WTP are not good examples of this early period of municipal utility development in Santa Monica as none of the original buildings from the 1904-1916 or 1916 purchase period remain. The tenuous connection to the City's economic or political history and the Arcadia WTP were lost when the original buildings were demolished in 2010. It is also not associated with specific instances of cultural, social, or architectural history in the City of Santa Monica. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 1.

2. *It has aesthetic or artistic interest or value, or other noteworthy interest or value.*

As described above in NRHP/CRHR Criteria C/3, the Arcadia WTP has no artistic interest or value. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 2.

3. *It is identified with historic personages or with important events in local, state or national history.*

As described above in NRHP/CRHR Criteria A/1 and B/2, the Arcadia WTP is not associated with an important historic person or important historical event. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 3.

4. *It embodies distinguishing architectural characteristics valuable to a study of a period, style, method of construction, or the use of indigenous materials or craftsmanship, or is a unique or rare example of an architectural design, detail or historical type valuable to such a study.*

As described above in NRHP/CRHR Criteria C/3, the Arcadia WTP does not have a distinctive have the architectural characteristics of a specific historical style that could be considered valuable to a study of period, style, method of construction, and craftsmanship; or as a rare example of architectural design, detail of historical type. The buildings and structure at Arcadia WTP are overly simplistic, lack reference to a specific style and may be categorized as utilitarian in both design and materials. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 4.

5. *It is a significant or a representative example of the work or product of a notable builder, designer or architect.*

As described above in NRHP/CRHR Criteria C/3, the remaining building stock at Arcadia WTP may be associated with the designing engineering firm James M. Montgomery, Consulting Engineers, Inc. but may not be specifically associated with James M. Montgomery himself. Therefore, the Arcadia WTP does not appear eligible under City of Santa Monica Landmark Criteria 5.

6. *It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City.*

The Arcadia WTP at 1228 South Bundy Drive was established on a good well site in the early twentieth century, originally several blocks east of the City of Santa Monica limits at 26th Street and later Centinela Avenue. The site was quickly absorbed into the town site of Sawtelle, which became part of the City of Los Angeles in 1918. Therefore, the location of the Arcadia WTP is outside of the City of Santa Monica and may not be considered an established and familiar visual feature of a neighborhood, community, or the City.

Integrity Discussion

Integrity is the ability of a property to convey its significance. To be listed in the NRHP or CRHR, a property must not only be shown to be significant under designation criteria, but it also must have integrity. The seven aspects of integrity are location, setting, design, materials, workmanship, feeling, and association. In order to retain historic integrity "a property will always possess several, and usually most, of the aspects" (Andrus and Shrimpton 2002).

Location: The Arcadia WTP property is sited on the original 1904 location. Therefore, the property retains integrity of location.

Design: The Arcadia WTP does not retain integrity of design. Nearly all buildings and structures on the Arcadia WTP property remain unchanged since their construction, lacking significant additions or alterations to the building origination, function, layout, materials, etc. However the basic function of Arcadia WTP has changed over time from a well site and pumping station to a reservoir storage site, to a hard-water treatment plant, and then experienced a period of disuse while the wells sites were contaminated, before being redeveloped into a water storage and treatment site in the 2010s.

Setting: The Arcadia WTP does not retain integrity of setting. When the Arcadia WTP was first developed, Salt Air Avenue and Wilshire Boulevard did not have the commercial or multi-family properties which are there today. In the 1956-1966 period of development for which many buildings and structures at Arcadia WTP are associated, Wilshire Boulevard, Bundy Drive, and Saltair Avenue were still relatively less densely developed. The setting of the Arcadia WTP has been stable since roughly the 1990s, and cannot be associated with the historic periods of development for the Arcadia WTP.

Materials: The Arcadia WTP does not retain integrity of materials. All of the original buildings and structures from the 1904 an-1916 private water company period have been demolished. The oldest structure, the 1924 reservoir has been reroofed with modern material several times and had an off-gas duct system added. The 1950s and 1960s-period of development building have minor alterations such as in kind additions, door reconfiguration, and material replacement of windows and doors. Existing materials observed during survey, namely concrete, are so ubiquitous that it cannot be identified to a specific historical period.

Workmanship: Similar to materials, the Arcadia WTP does not retain integrity of workmanship. The physical evidence of the craftsmanship for these simple utilitarian buildings was already low. Coupled with the removed original 1904-1916 period buildings, all evidence of early/original craftsmanship has been demolished.

Feeling: Overall, the Arcadia WTP does not retain integrity of feeling. Though most standing buildings have few non-intrusive alterations, the removal of all original and early-period building diminishes the feel of an early twentieth century water treatment plant. This is future diminished by the addition of the ten buildings and structures added to the property in 2010. The Arcadia WTP property no longer retains the feeling of an early twentieth century well site and treatment plant.

Association: The Arcadia WTP does not retain integrity of association. Per NRHP Bulletin 15: Association is the direct link between an important historic event or person and a historic property. A property retains association if it is the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer. The Arcadia WTP was originally developed by private water company Santa Monica Water Company, and purchased by the City of Santa Monica in 1916, but has no association with a specific person or event in the history of Santa Monica.

In summary, the Arcadia WTP at 1228 South Bundy Drive only retains integrity of location and association, but lacks integrity of design, setting, materials, workmanship, and feeling.

B12. References (Continued):

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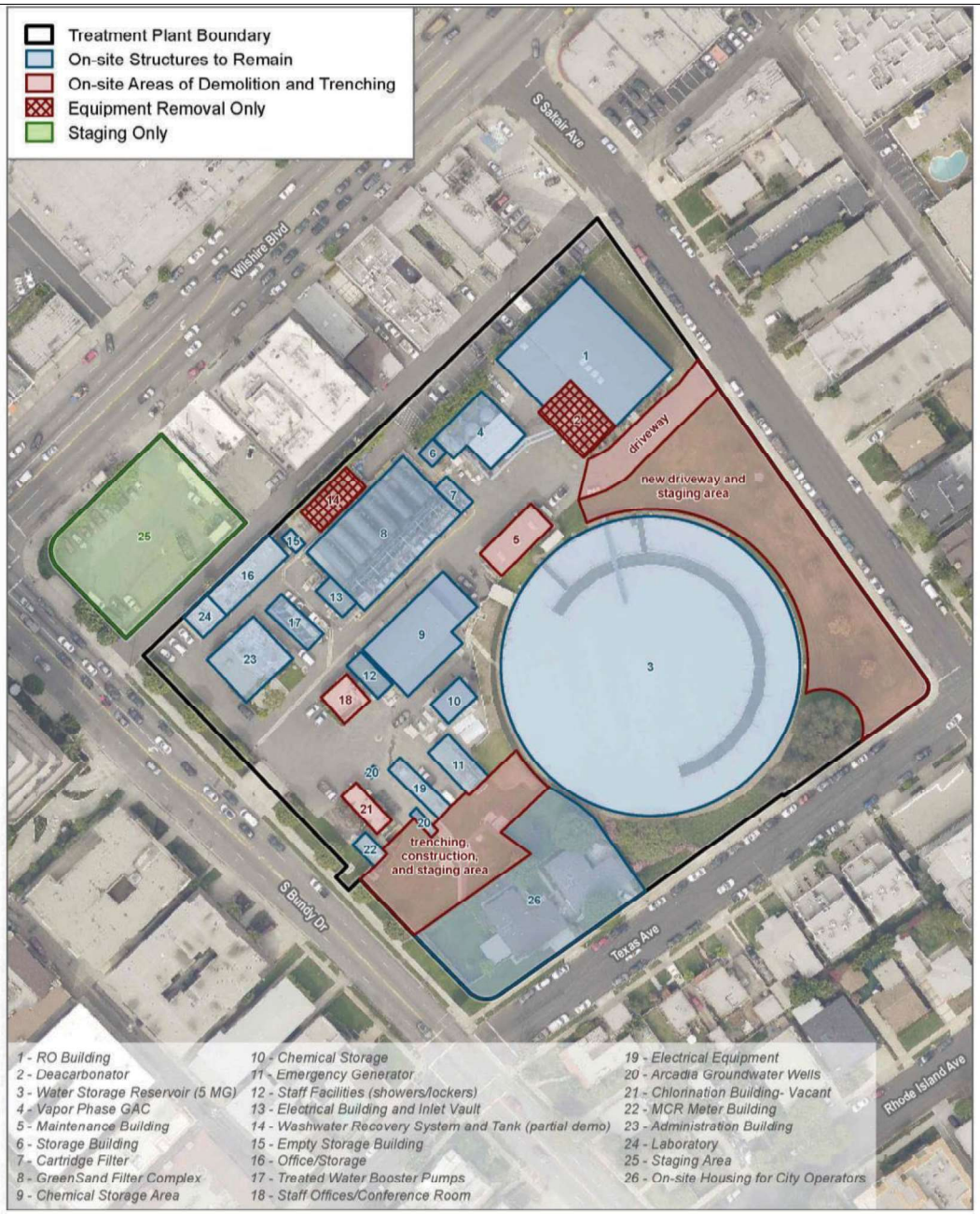
Sketch Map


Treatment Plant Boundary
On-site Structures to Remain
On-site Areas of Demolition and Trenching
Equipment Removal Only
Staging Only
S Baldwin Ave
Wilshire Blvd
S Santa Anita Ave
S Sunset Ave
S Bradley Rd
S Bundy Dr
Texas Ave
Rhode Island Ave
driveway
new driveway and staging area
trenching, construction, and staging area
1 - RO Building
2 - Deacarbonator
3 - Water Storage Reservoir (5 MG)
4 - Vapor Phase GAC
5 - Maintenance Building
6 - Storage Building
7 - Cartridge Filter
8 - GreenSand Filter Complex
9 - Chemical Storage Area
10 - Chemical Storage
11 - Emergency Generator
12 - Staff Facilities (showers/lockers)
13 - Electrical Building and Inlet Vault
14 - Washwater Recovery System and Tank (partial demo)
15 - Empty Storage Building
16 - Office/Storage
17 - Treated Water Booster Pumps
18 - Staff Offices/Conference Room
19 - Electrical Equipment
20 - Arcadia Groundwater Wells
21 - Chlorination Building- Vacant
22 - MCR Meter Building
23 - Administration Building
24 - Laboratory
25 - Staging Area
26 - On-site Housing for City Operators

State of California ♘ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

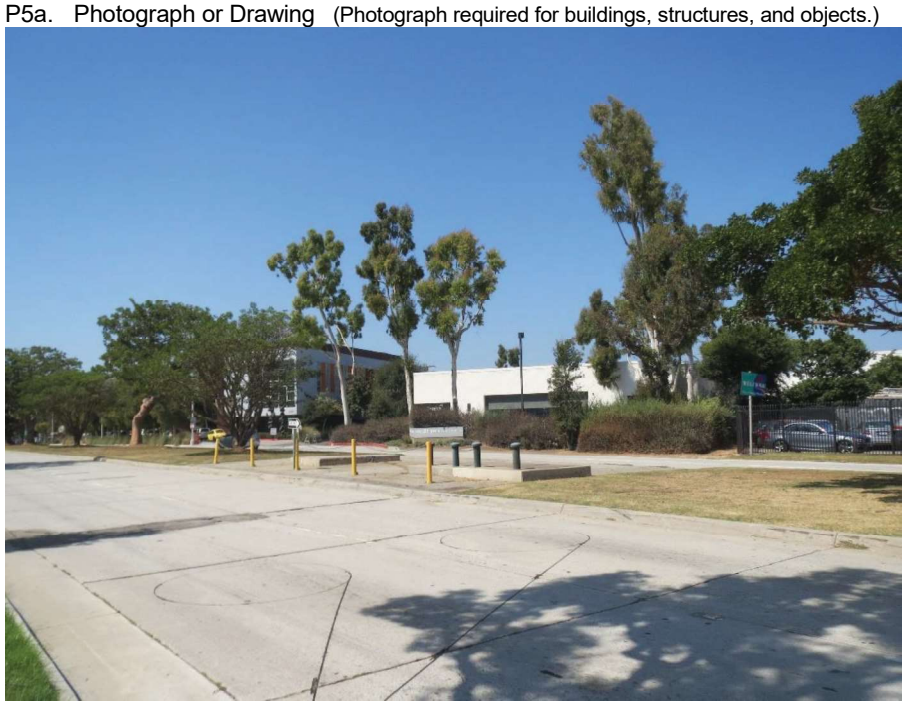
Page 1 **of** 7 ***Resource Name or #:** (Assigned by recorder) SM-3 well
P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Beverly Hills **Date** 1995 **T** 02S; **R** 15W; NE ¼ **of** NW ¼ **of Sec** 04 ; San Beranrdino **B.M.**
c. Address Olympic Boulevard City Santa Monica Zip 90404
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 365199.95 mE/ 3766569.20 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
The Olympic Well Field Project site is located along Olympic Boulevard between the intersections with 26th Street and Centinela Avenue. SM-3 (replacement of existing SM-3) is located near the intersection of Olympic Boulevard and Centinela Avenue, just west of Centinela Avenue. Elevation: 155 ft. amsl; Decimal Degrees: 34°01'52.2"N 118°27'36.5"W

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The SM-3 well is located on a concrete pad in the grass lawn of the median. The above ground portion of the well structure consists of two raised concrete pads, roughly 8" tall, with four ventilation pipes on one pad. Barrier poles offer protection from off-roading vehicles, also located around the concrete pad.

***P3b. Resource Attributes:** (List attributes and codes) AH5. Well/cistern
***P4. Resources Present:** ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) Northwest-most well (SM-3), view looking west (IMG 4280)

***P6. Date Constructed/Age and Source:**
☐ Historic ☐ Prehistoric ☐ Both
1968 and 1970 (UCSB 2019).

***P7. Owner and Address:**
City of Santa Monica
Public Works Department,
Water Resources
1212 5th Street, 3rd floor
Santa Monica, CA 90401

***P8. Recorded by:** (Name, affiliation, and address) Kate Kaiser, Dudek
38 N. Marengo Avenue
Pasadena, CA 91101

***P9. Date Recorded:** 10/30/2019
***P10. Survey Type:** pedestrian

***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Kaiser, Kate, Adriane Gusick, and Samantha Murray. 2019. *Historical Resources Technical Report for the Olympic Well Field Restoration and Arcadia Expansion Project, City of Santa Monica, California*. Prepared by Dudek for the City of Santa Monica Public Works Department, Water Resources.

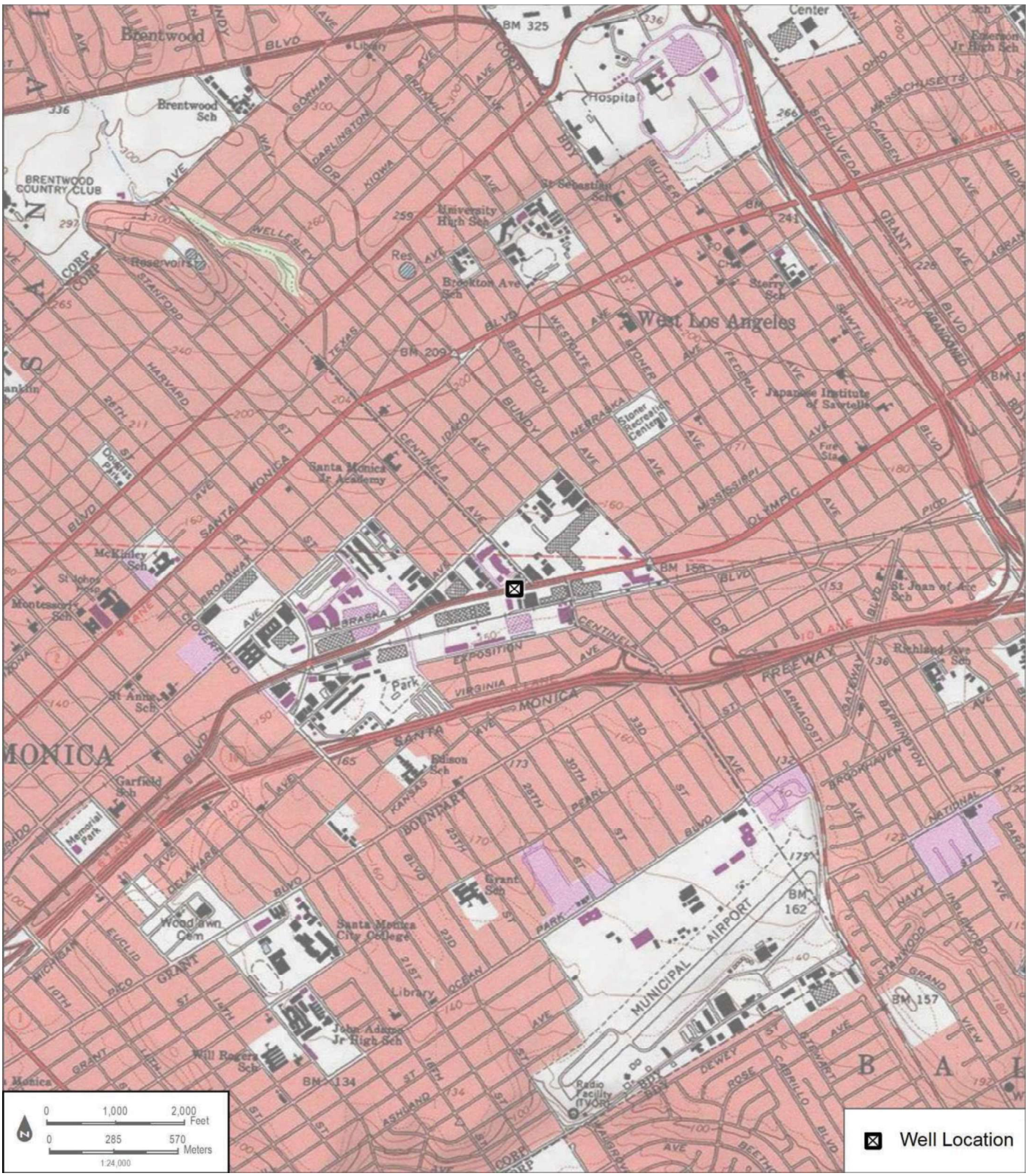
***Attachments:** ☐NONE ☒Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California ◆ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

 ***Resource Name or #** (Assigned by recorder) Well SM-3
***Map Name:** Beverly Hills ***Scale:** 2:24,000 ***Date of map:** 1995



State of California ♦ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Well SM-3 ***NRHP Status Code** 6Z

Page 3 **of** 7

B1. Historic Name: Olympic Well Field Well
B2. Common Name: SM-3
B3. Original Use: Well B4. Present Use: abandoned in place
***B5. Architectural Style:** utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)

The first well field to provide water for City of Santa Monica was located near the San Vicente Springs, northeast of City of Santa Monica, which continued to provide water for City of Santa Monica from 1875 to the 1910s. The City of Santa Monica has extracted groundwater from the various wells in the Santa Monica Basin since 1924. In 1924, the Charnock Wellfield first began providing water to the City of Santa Monica, but wells appear at various private water company sites as early as 1918, including at the Arcadia property and along Olympic Boulevard. Two wells, including the SM-3 well site, along Olympic Boulevard were installed between 1968 and 1970, according to aerial imagery. After a 10-week closure in 1980, The Santa Monica City Council approved that the well be re-opened. The Olympic well sites accounted for 12% of the City water supply in 1980. (ARG/HRG 2018; LAT 1980; Sanborn 1918, 1921, 1924; Santa Monica Outlook 1924; UCSB 2019).

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
B9a. Architect: _____ **b. Builder:** _____
***B10. Significance: Theme** _____ **Area** _____

Period of Significance _____ **Property Type** _____ **Applicable Criteria** _____
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

(See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes) _____

***B12. References:**

(See Continuation Sheet)

B13. Remarks:

***B14. Evaluator:** Kate Kaiser, MSHP
***Date of Evaluation:** October 30, 2019

(Sketch Map with north arrow required.)



(This space reserved for official comments.)

B10. Significance (Continued):

NRHP/CRHR Designation Criteria

The following provides an evaluation of the SM-3 well site identified along Olympic Boulevard between Centinela Avenue and Stewart Street in consideration of NRHP and CRHR designation criteria and integrity requirements.

Criterion A/1: That are associated with events that have made a significant contribution to the broad patterns of our history.

Archival research did not find any association with events that have made significant contributions to the broad patterns of local Santa Monica history or regional history. The well first appears on aerial photographs between 1968 and 1970. This late 1960s development is very late in the water infrastructure development history of Santa Monica, which relied on spring water for its initial period of growth and turned to wells in the 1890s and 1900s as the spring site production began to fall behind demand. The well' construction was part of City of Santa Monica Water Department's natural growth and there is no indication that the construction of the well indicated a pivotal point in the history of City of Santa Monica. Further, the SM-3 well site on Olympic Boulevard is not directly associated with events that have made a significant contribution to the history of the State or nation. Therefore, SM-3 well site does not appear eligible under NRHP/CRHR Criterion A/1.

Criterion B/2: That are associated with the lives of persons significant in our past.

Archival research did not indicate that historically significant figures at the national, State, or local level were associated with the Olympic Boulevard SM-3 well site. Therefore, the SM-3 well site does not appear eligible under NRHP/CRHR Criterion B/2.

Criterion C/3: That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

Two Olympic Boulevard wells were visible in the Olympic Boulevard median beginning with the 1970 aerial photograph, giving a rough construction date of 1968 (not visible in aerials) to 1970 (visible). However, the SM-3 well site does not embody distinctive characteristics of a type, period, or method of construction. Archival research did not indicate that the construction of the SM-3 well site was associated with a master engineer. The SM-3 well site does not possess high artistic value, nor are they valuable as a representative of other significant or distinguishable wells. Therefore, the SM-3 well site does not appear eligible under NRHP/CRHR Criterion C/3.

Criterion D/4: That have yielded, or may be likely to yield, information important in prehistory or history.

The Olympic Boulevard SM-3 well is not significant as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies. Therefore, the SM-3 well site does not appear eligible under NRHP/CRHR Criterion D/4.

City of Santa Monica Structure of Merit Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the SM-3 well site does not appear eligible under any of the City of Santa Monica Structure of Merit

criteria, as described below:

The structure has been identified in the City's Historic Resources Inventory.

The SM-3 well site on Olympic Boulevard is not currently listed in the City's Historic Resources Inventory.

The structure is a minimum of 50 years of age

The SM-3 well site is currently between 49 and 51 years of age and according to aerials were constructed between 1968 and 1970.

and meets one of the following criteria:

1. *The structure is a unique or rare example of an architectural design, detail or historical type.*

The SM-3 well site is utilitarian in construction and are not unique or rare examples of an architectural design, detail or historical type.

2. *The structure is representative of a style in the City that is no longer prevalent.*

Utilitarian structures housing utilities are still in use by City of Santa Monica and may not be considered a style in the City that is no longer prevalent.

3. *The structure contributes to a potential Historic District. (Added by Ord. No. 2486CCS §§ 1, 2, adopted June 23, 2015)*

The SM-3 well site does not contribute to a potential historic district as defined in Ord. No. 2486CCS §§ 1, 2.

City of Santa Monica Landmark Designation Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the SM-3 well site does not appear eligible under any of the City of Santa Monica Landmark or Historic District criteria, as described below:

1. *It exemplifies, symbolizes, or manifests elements of the cultural, social, economic, political or architectural history of the City.*

The SM-3 well site is not particularly good examples of any cultural, social, economic, political or architectural history of the City. The SM-3 well site was constructed relatively late in the development of City of Santa Monica water infrastructure, and are not associated with any cultural, social or political groups. As described above in NRHP/CRHR Criteria C/3, the SM-3 well site is utilitarian construction and not an example of an architectural style. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 1.

2. *It has aesthetic or artistic interest or value, or other noteworthy interest or value.*

As described above in NRHP/CRHR Criteria C/3, the SM-3 well site has no artistic interest or value. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 2.

3. *It is identified with historic personages or with important events in local, state or national history.*

As described above in NRHP/CRHR Criteria A/1 and B/2, the SM-3 well site is not associated with an important historic person or important historical event. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 3.

4. *It embodies distinguishing architectural characteristics valuable to a study of a period, style, method of construction, or the use of indigenous materials or craftsmanship, or is a unique or rare example of an architectural design, detail or historical type valuable to such a study.*

As described above in NRHP/CRHR Criteria C/3, the SM-3 well site does not have a distinctive have the architectural characteristics of a specific historical style that could be considered valuable to a study of period, style, method of construction, and craftsmanship; or as a rare example of architectural design, or a detail of historical type. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 4.

5. *It is a significant or a representative example of the work or product of a notable builder, designer or architect.*

As described above in NRHP/CRHR Criteria C/3, the SM-3 well site is not associated with any specific person that may be considered a master engineer. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 5.

6. *It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City.*

The Olympic Boulevard wells were established in the median of Olympic Boulevard after it was reconfigured into a multi-lane road with median in the early 1960s. However this location is not unique and the SM-3 well site is not established and familiar visual feature of Olympic Boulevard. Therefore, the SM-3 well site does not appear eligible under City of Santa Monica Landmark Criteria 6.

Integrity Discussion

Location: The SM-3 well site is sited on the original location of construction in its original orientation. Therefore, they retain integrity of location.

Design: The SM-3 well site retains integrity of design, and does not appear to have been altered since their original construction between 1968 and 1970.

Setting: The SM-3 well site retains integrity of setting. It is still located in the grassy median lawn between two multi-lane busy surface streets. The neighborhood fronting onto Olympic Boulevard still retains many characteristics of its industrial and manufacturing past, and is noticeably recognizable as such.

Materials: The SM-3 well site retains integrity of materials. No noticeable alterations have been made to either well.

Workmanship: Similar to materials, the SM-3 well site retains integrity of workmanship. The physical evidence of the craftsmanship required to create the utilitarian constructed wells has been retained.

Feeling: The SM-3 well site retains integrity of feeling. Due to the lack of large-scale alterations, the SM-3 well site still evokes the feeling of twentieth century water infrastructure.

Association: The SM-3 well site does not retain integrity of association. The well is still owned and operated by the City of Santa Monica Department of Public Works Water division, but is not specifically associated with a historical person or event.

In summary, the SM-3 well site retains all aspects of integrity: location, design, setting, materials, workmanship, and feeling.

B12. References (Continued):

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Appendix C

Natural History Museum of Los Angeles County Paleontological Records Search

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007

tel 213.763.DINO
www.nhm.org

NATURAL HISTORY MUSEUM
LOS ANGELES COUNTY

Vertebrate Paleontology Section
Telephone: (213) 763-3325

e-mail: smcleod@nhm.org

5 February 2020

Dudek
605 Third Street
Encinitas, CA 92024

Attn: Michael Williams, Ph.D., Senior Paleontologist

re: Vertebrate Paleontology Records Check for paleontological resources for the proposed Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project, Dudek Project # 12038, in the Cities of Santa Monica and Los Angeles, Los Angeles County, project area

Dear Michael:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for the proposed Olympic Well Field Restoration and Arcadia Water Treatment Plant Expansion Project, Dudek Project # 12038, in the Cities of Santa Monica and Los Angeles, Los Angeles County, project area as outlined on the portion of the Beverly Hills USGS topographic quadrangle map that you sent to me via e-mail on 22 January 2020. We do not have any fossil vertebrate localities that lie directly within the proposed project area boundaries, but we do have localities somewhat nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

Surface deposits in almost all of the proposed project area consist of younger Quaternary Alluvium, derived broadly as alluvial fan deposits from the Santa Monica Mountains to the north. These younger Quaternary deposits typically do not contain significant vertebrate fossils in the very upper-most layers, but at relatively shallow depth may well contain significant fossil vertebrate remains from older Quaternary deposits. In the very northern and northwestern portions of the proposed project area there are surficial deposits of older Quaternary Alluvium, also derived as alluvial fan deposits from the Santa Monica Mountains to the north. Our closest

vertebrate fossil locality in these older Quaternary deposits is LACM 5462, immediately south of the southwestern-most portion of the proposed project area along Pennsylvania Avenue. Locality LACM 5462 is particularly noteworthy because a specimen of extinct lion, *Felis atrox*, was recovered from this locality at a depth of only six feet below the surface. Our next closest vertebrate fossil locality from these deposits, LACM 7879, south of the eastern-most portion of the proposed project area near the intersection of Rose Avenue and Penmar Avenue, produced fossil specimens of horse, *Equus*, and ground sloth, *Paramylodon*, at greater than eleven feet in depth.

Surface grading or very shallow excavations in the proposed project area probably will not uncover significant vertebrate fossil remains. Excavations that extend down below about five feet, however, may well encounter significant fossil vertebrate specimens. Any substantial excavations below the uppermost layers in the proposed project area, therefore, should be monitored closely to quickly and professionally recover any fossil remains discovered while not impeding development. Sediment samples from the proposed project area should also be collected and processed to determine the small fossil potential of the site. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,

Samuel A. McLeod

Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosure: invoice

Appendix D

Noise Modeling Data

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Los Angeles = 75
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 0.25

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 0.25-hour Leq
Demolition	Concrete Saw	1	20	90		50	90.0	0.25	15	83
	Dozer	1	40	82		50	82.0	0.25	15	78
	Backhoe	3	40	78		50	78.0	0.25	15	79
							Total for Demolition Phase:			**85.3**
Site Preparation and Grading	Grader	1	40	85		50	85.0	0.25	15	81
	Dozer	1	40	82		50	82.0	0.25	15	78
	Backhoe	2	40	78		50	78.0	0.25	15	77
							Total for Site Preparation and Grading Phase:			**83.8**
Bldg. Construction 1	Man Lift	1	20	75	forklift	50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Generator (<25KVA, VMS signs)	1	50	70		50	70.0	0.25	15	67
	Backhoe	1	40	78		50	78.0	0.25	15	74
							Total for Bldg. Construction 1 Phase:			**77.5**
Bldg. Construction 2	Man Lift	1	20	75		50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	83	"rough terrain forklift"	50	83.0	0.25	15	79
							Total for Bldg. Construction 2 Phase:			**80.3**
Bldg. Construction 3	Generator (<25KVA, VMS signs)	1	50	70		50	70.0	0.25	15	67
	Backhoe	1	40	78		50	78.0	0.25	15	74
							Total for Bldg. Construction 3 Phase:			**74.8**
Bldg. Construction 4	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	83	"rough terrain forklift"	50	83.0	0.25	15	79
							Total for Bldg. Construction 4 Phase:			**80.0**
Bldg. Construction 5	Gradall	1	40	83	"rough terrain forklift"	50	83.0	0.25	15	79
							Total for Bldg. Construction 5 Phase:			**79.0**
Bldg. Construction 6	Man Lift	1	20	75		50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	83	"rough terrain forklift"	50	83.0	0.25	15	79
	Excavator	1	40	81		50	81.0	0.25	15	77
	Drill Rig Truck	1	20	79	"bore/drill rig"	50	79.0	0.25	15	72
							Total for Bldg. Construction 6 Phase:			**82.4**
Bldg. Construction 7	Man Lift	1	20	75		50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	83	"rough terrain forklift"	50	83.0	0.25	15	79
							Total for Bldg. Construction 7 Phase:			**80.3**
Architectural Coating	Compressor (air)	1	40	78		50	78.0	0.25	15	74
							Total for Architectural Coating Phase:			**74.0**
Paving	Paver	1	50	77		50	77.0	0.25	15	74
	Roller	1	20	80		50	80.0	0.25	15	73
							Total for Paving Phase:			**76.5**

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Los Angeles = 75
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 0.25

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 0.25-hour Leq
Demolition	Concrete Saw	1	20	**82**		50	81.9	0.25	15	75
	Dozer	1	40	**79**		50	78.9	0.25	15	75
	Backhoe	1	40	78		50	78.0	0.25	15	74
							Total for Demolition Phase:			**79.4**
Site Preparation and Grading	Grader	1	40	**79**		50	78.9	0.25	15	75
	Dozer	1	40	**79**		50	78.9	0.25	15	75
	Backhoe	1	40	78		50	78.0	0.25	15	74
							Total for Site Preparation and Grading Phase:			**79.4**
Bldg. Construction 1	Man Lift	1	20	75	forklift	50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Generator (<25KVA, VMS signs)	1	50	70		50	70.0	0.25	15	67
	Backhoe	1	40	78		50	78.0	0.25	15	74
							Total for Bldg. Construction 1 Phase:			**77.5**
Bldg. Construction 2	Man Lift	1	20	75		50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	**79**	"rough terrain forklift"	50	78.9	0.25	15	75
							Total for Bldg. Construction 2 Phase:			**77.6**
Bldg. Construction 3	Generator (<25KVA, VMS signs)	1	50	70		50	70.0	0.25	15	67
	Backhoe	1	40	78		50	78.0	0.25	15	74
							Total for Bldg. Construction 3 Phase:			**74.8**
Bldg. Construction 4	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	**79**	"rough terrain forklift"	50	78.9	0.25	15	75
							Total for Bldg. Construction 4 Phase:			**77.1**
Bldg. Construction 5	Gradall	1	40	**79**	"rough terrain forklift"	50	78.9	0.25	15	75
							Total for Bldg. Construction 5 Phase:			**74.9**
Bldg. Construction 6	Man Lift	1	20	75		50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	**79**	"rough terrain forklift"	50	78.9	0.25	15	75
	Excavator	1	40	**79**		50	78.9	0.25	15	75
	Drill Rig Truck	1	20	79	"bore/drill rig"	50	79.0	0.25	15	72
							Total for Bldg. Construction 6 Phase:			**80.2**
Bldg. Construction 7	Man Lift	1	20	75		50	75.0	0.25	15	68
	Crane	1	16	81		50	81.0	0.25	15	73
	Gradall	1	40	**79**	"rough terrain forklift"	50	78.9	0.25	15	75
							Total for Bldg. Construction 7 Phase:			**77.6**
Architectural Coating	Compressor (air)	1	40	78		50	78.0	0.25	15	74
							Total for Architectural Coating Phase:			**74.0**
Paving	Paver	1	50	77		50	77.0	0.25	15	74
	Roller	1	20	80		50	80.0	0.25	15	73
							Total for Paving Phase:			**76.5**

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Los Angeles = 75
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 0.25

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 0.25-hour Leq
Site Preparation	Paver	1	50	77		50	77.0	0.25	15	74
								Total for Site Preparation Phase:		**74.0**
Grading - Installation	Excavator	1	40	81		50	81.0	0.25	15	77
	Dump Truck	1	40	76		50	76.0	0.25	15	72
	Roller	1	20	80		50	80.0	0.25	15	73
								Total for Grading - Installation Phase:		**79.4**
Grading - Slurry Backfill	Concrete Mixer Truck	1	40	79		50	79.0	0.25	15	75
								Total for Grading - Slurry Backfill Phase:		**75.0**
Continual Paving	Paver	1	50	77		50	77.0	0.25	15	74
	Roller	1	20	80		50	80.0	0.25	15	73
								Total for Continual Paving Phase:		**76.5**
Continual Pavement Striping	Flat Bed Truck	1	40	74	striper truck	50	74.0	0.25	15	70
								Total for Continual Pavement Striping Phase:		**70.0**
Final Paving	Paver	1	50	77		50	77.0	0.25	15	74
	Roller	1	20	80		50	80.0	0.25	15	73
	Pavement Scarafier	1	20	85	"milling machine"	50	85.0	0.25	15	78
								Total for Final Paving Phase:		**80.3**

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Los Angeles = 75
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 0.25

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 0.25-hour Leq
Site Preparation	Paver	1	50	77		50	77.0	0.25	15	74
							Total for Site Preparation Phase:			**74.0**
Grading - Installation	Excavator	1	40	**79**		50	78.9	0.25	15	75
	Dump Truck	1	40	76		50	76.0	0.25	15	72
	Roller	1	20	80		50	80.0	0.25	15	73
							Total for Grading - Installation Phase:			**78.3**
Grading - Slurry Backfill	Concrete Mixer Truck	1	40	79		50	78.9	0.25	15	75
							Total for Grading - Slurry Backfill Phase:			**74.9**
Continual Paving	Paver	1	50	77		50	77.0	0.25	15	74
	Roller	1	20	80		50	80.0	0.25	15	73
							Total for Continual Paving Phase:			**76.5**
Continual Pavement Striping	Flat Bed Truck	1	40	74	striper truck	50	74.0	0.25	15	70
							Total for Continual Pavement Striping Phase:			**70.0**
Final Paving	Paver	1	50	77		50	77.0	0.25	15	74
	Roller	1	20	80		50	80.0	0.25	15	73
	Pavement Scarafier	1	20	**79**	"milling machine"	50	78.9	0.25	15	72
							Total for Final Paving Phase:			**77.8**

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Santa Monica = 80
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 1

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Site Preparation	Paver	1	50	77		50	77.0	1	60	74
							Total for Site Preparation Phase:			**74.0**
Grading - Installation	Excavator	1	40	81		50	81.0	1	60	77
	Dump Truck	1	40	76		50	76.0	1	60	72
	Roller	1	20	80		50	80.0	1	60	73
							Total for Grading - Installation Phase:			**79.4**
Grading - Slurry Backfill	Concrete Mixer Truck	1	40	79		50	79.0	1	60	75
							Total for Grading - Slurry Backfill Phase:			**75.0**
Continual Paving	Paver	1	50	77		50	77.0	1	60	74
	Roller	1	20	80		50	80.0	1	60	73
							Total for Continual Paving Phase:			**76.5**
Continual Pavement Striping	Flat Bed Truck	1	40	74	striper truck	50	74.0	1	60	70
							Total for Continual Pavement Striping Phase:			**70.0**
Final Paving	Paver	1	50	77		50	77.0	1	60	74
	Roller	1	20	80		50	80.0	1	60	73
	Pavement Scarafier	1	20	85	"milling machine"	50	85.0	1	60	78
							Total for Final Paving Phase:			**80.3**

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Santa Monica = 80
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 1

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Site Preparation	Paver	1	50	77		50	77.0	1	60	74
							Total for Site Preparation Phase:			**74.0**
Grading - Installation	Excavator	2	**25**	81		50	81.0	1	60	78
	Roller	1	20	80		50	80.0	1	60	73
							Total for Grading - Installation Phase:			**79.2**
Grading - Slurry Backfill	Concrete Mixer Truck	1	40	79		50	79.0	1	60	75
							Total for Grading - Slurry Backfill Phase:			**75.0**
Continual Paving	Paver	1	50	77		50	77.0	1	60	74
	Roller	1	20	80		50	80.0	1	60	73
							Total for Continual Paving Phase:			**76.5**
Continual Pavement Striping	Flat Bed Truck	0	40	74	striper truck	50	74.0	1	60	0
							Total for Continual Pavement Striping Phase:			**0.0**
Final Paving	Paver	1	50	77		50	77.0	1	60	74
	Roller	1	20	80		50	80.0	1	60	73
	Pavement Scarafier	1	20	85	"milling machine"	50	85.0	1	60	78
							Total for Final Paving Phase:			80.3

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Santa Monica = 85
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 1

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Grading - Well Pads	Dump Truck	1	40	76		50	76.0	1	60	72
	Excavator	1	40	81		50	81.0	1	60	77
	Concrete Mixer Truck	1	40	79		50	79.0	1	60	75
							Total for Grading - Well Pads Phase:			**79.9**
Well Equipping	Excavator	1	40	81		50	81.0	1	60	77
	Drill Rig Truck	1	20	79		50	79.0	1	60	72
	Generator	1	50	72		50	72.0	1	60	69
	Welder / Torch	1	40	73		50	73.0	1	60	69
							Total for Well Equipping Phase:			**79.1**
Artistic Fencing	Excavator	1	40	81		50	81.0	1	60	77
							Total for Artistic Fencing Phase:			**77.0**

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase, per City of Santa Monica = 80
allowable hours over which Leq is to be averaged (example: 8 for per FTA guidance) = 1

Construction Phase or Feature	Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide Equipment Type	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Project Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Grading - Well Pads	Dump Truck	1	40	76		50	76.0	1	60	72
	Excavator	1	40	81		50	81.0	1	60	77
	Concrete Mixer Truck	1	40	79		50	79.0	1	60	75
							Total for Grading - Well Pads Phase:			**79.9**
Well Equipping	Excavator	1	40	81		50	81.0	1	60	77
	Drill Rig Truck	1	20	79		50	79.0	1	60	72
	Generator	1	50	72		50	72.0	1	60	69
	Welder / Torch	1	40	73		50	73.0	1	60	69
							Total for Well Equipping Phase:			**79.1**
Artistic Fencing	Excavator	1	40	81		50	81.0	1	60	77
							Total for Artistic Fencing Phase:			**77.0**

OLYMPIC WELL FIELD RESTORATION AND ARCADIA WATER TREATMENT PLANT EXPANSION PROJECT
MITIGATED NEGATIVE DECLARATION – SECTION 3.11 – APPENDIX D-2

Prepared by: Mark Storm, INCE Bd. Cert. (Dudek Acoustic Services Manager)
Date: February 18, 2020

The information provided below is intended to provide supporting detail for the operational noise impact assessment for the Olympic Wellfield Restoration and Arcadia Water Treatment Plant (WTP) Expansion (Project).

Methodology

Arcadia Water Treatment Plant Expansion

Prediction of post-construction operation noise attributed to Project features (either added to the WTP or resulting in renovation or replacement of WTP systems and components) involved creation of a sound propagation model using the CadnaA (Computer Aided Noise Abatement) software program. CadnaA is a commercially available computer-modeling program for calculation, presentation, assessment, and prediction of environmental noise. Estimated sound emissions from pumps, blowers, and other major noise-producing equipment was input into CadnaA, along with site plan information. The outdoor noise propagation formulas follow ISO Standard 9613-2, Attenuation of Sound During Propagation Outdoors, Part 2: General Method of Calculation.

DRAFT

For purposes of this analysis, Figure 1 shows the planned locations of the proposed new noise-producing features associated with the Project.

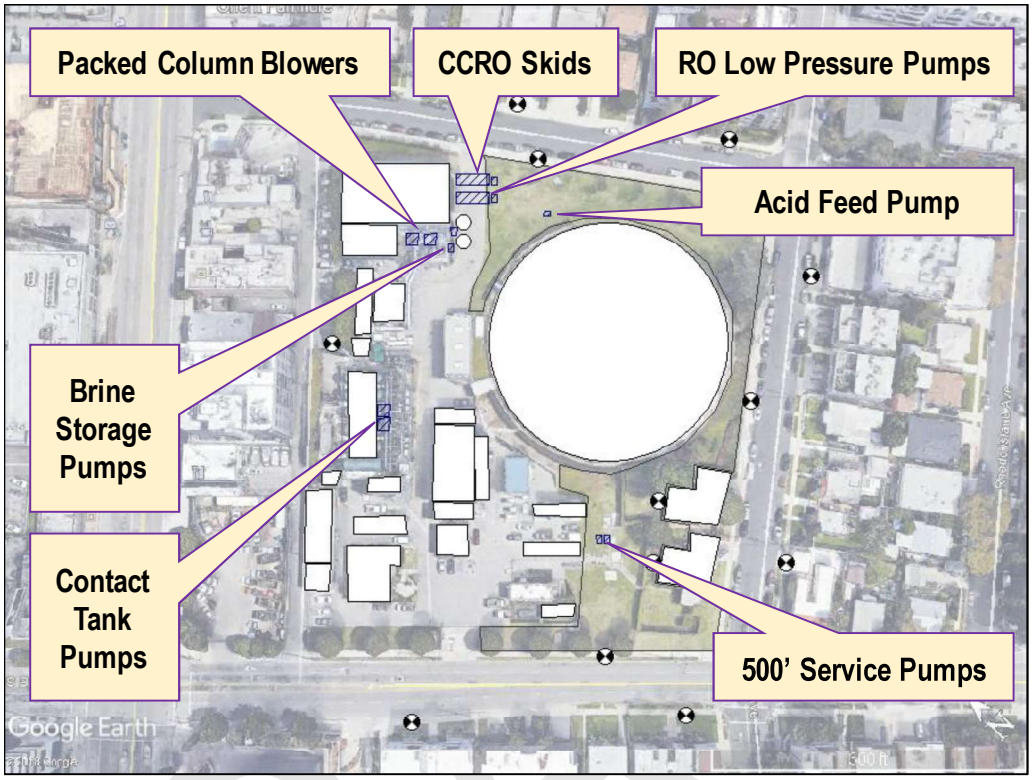

Figure 1. Planned Locations of New Major Noise-Producing Features of Arcadia WTP Expansion

The Project features shown in Figure 1 were input sound sources in the CadnaA 3-D model space and were defined with the following assumptions and available Project design information:

- Two new closed-circuit reverse osmosis (CCRO) pumps (220 horsepower [hp] each) on skids, each having an estimated sound power level (PWL) of 102 A-weighted decibels (dBA), within a new building or enclosure that provides a minimum of 25 decibels (dB) of interior-to-exterior noise reduction.
- One new acid feed pump (30 hp), having an estimated PWL of 94 dBA within an enclosure that provides at least 10 dB of interior-to-exterior noise reduction.
- Two replacement packed column air stripping tower blowers (15,000 standard cubic feet per minute and 14 inches water gauge each), each having an estimated casing radiated PWL of 91 dBA and exposed to the outdoors but with ducted inlet and outlet.
- Two new contact tank pumps (125 hp each), each having an estimated PWL of 101 dBA, within a new enclosure that provides a minimum of 10 dB of interior-to-exterior noise reduction.
- Two new reverse osmosis low-pressure feed pumps (200 hp each), each having an estimated PWL of 102 dBA, within a new enclosure that provides a minimum of 20 dB of interior-to-exterior noise reduction.
- Two new pumps (up to 150 hp each) for the 500-foot service pump station, each having an estimated PWL of 101 dBA, within a new enclosure or building that provides a minimum of 25 dB of interior-to-exterior noise reduction.

- Two new brine storage tank pumps (up to 30 hp each), each having an estimated PWL of 94 dBA, within a new enclosure that provides a minimum of 15 dB of interior-to-exterior noise reduction.

Other noise-producing WTP equipment that are anticipated to remain as-is and not affected by the Project are not included in this outdoor noise prediction model. Such pre-existing WTP noise-emitting sources are, like the background sound from nearby and distant roadway traffic, already represented by the samples of measured outdoor ambient sound pressure levels collected during the field survey on October 1, 2019.

Calculation parameters that establish how the CadnaA model predicts combined noise levels from the above-listed Project sources are as follows:

- Sound propagation per ISO 9613-2 (ISO 1996)
- Default ground absorption coefficient = 0.2 (on a scale of 0 = reflective, 1 = absorptive) for paved and concrete areas, and 0.75 for on-site grassy areas
- Single order of reflection
- 68°F, 50% relative humidity

Olympic Well Field Restoration

Prediction of post-construction operation noise attributed to the four added wells used an Excel-based tool that emulates CadnaA sound propagation functionality and presentation of output as a visual "grid" of colored isopleths. Like the CadnaA software, this tool incorporates relevant algorithms and reference data found in ISO 9613-2.

From the baseline conditions field survey, 15-minute outdoor sound pressure level measurements were performed during daytime hours at two positions (New Roads School and SM-4; see Figure 2) on the Olympic Boulevard roadway median in the vicinity of the existing Olympic Well Field. Sound levels averaged 77 dBA L_{eq} and 63.6 dBA L_{90}. At the SM-4 survey location, the field investigator noted a "constant hum from the underground vault," suggesting that the L_{90} measured value of 64.3 dBA at a distance of approximately 12 feet would likely represent the above-ground sound emission for this existing Olympic Well Field pump infrastructure.

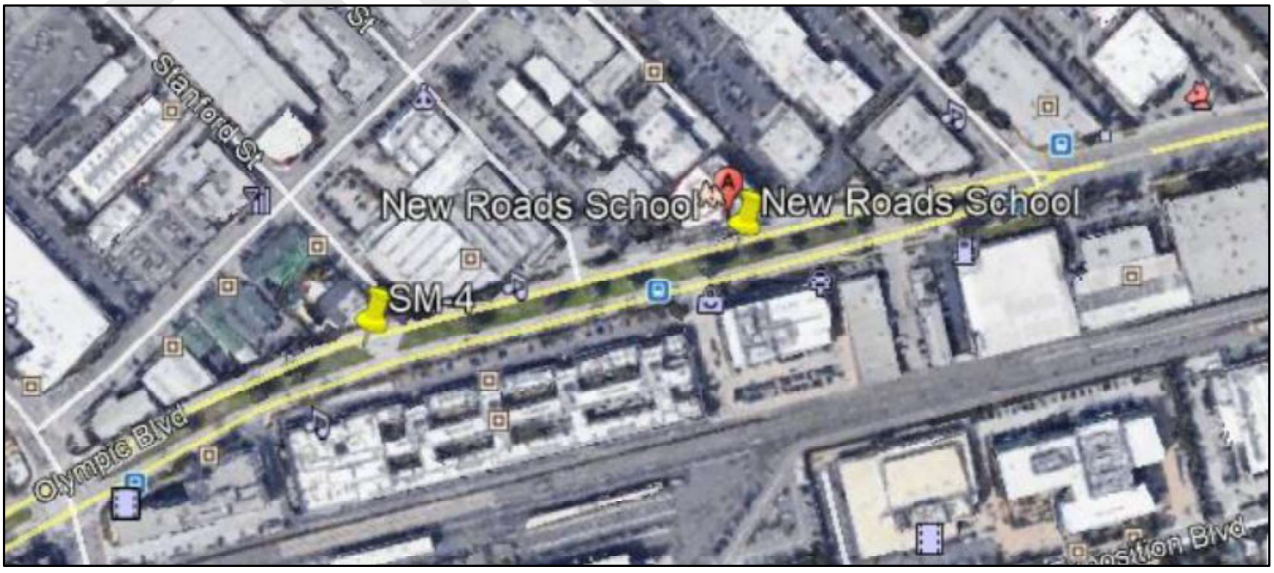

Figure 2. Locations of Baseline Sound Level Measurements in Olympic Well Field Vicinity

On the basis of comparable operating equipment and enclosure infrastructure, this predictive analysis assumed that the measured sound pressure level for SM-4 serves as the reference source sound pressure level for each of the newly added Olympic Well Field features: Injection Well, SM-8, SM-9, and SM-11i.

Predicted Results

Arcadia Water Treatment Plant Expansion

Figure 3 shows, by way of a horizontal plane (1.5 meters [approximately 5 feet] above grade) of colored isopleths (i.e., comparable sound level within a 5 dB range), the predicted operation noise levels due to the Project.

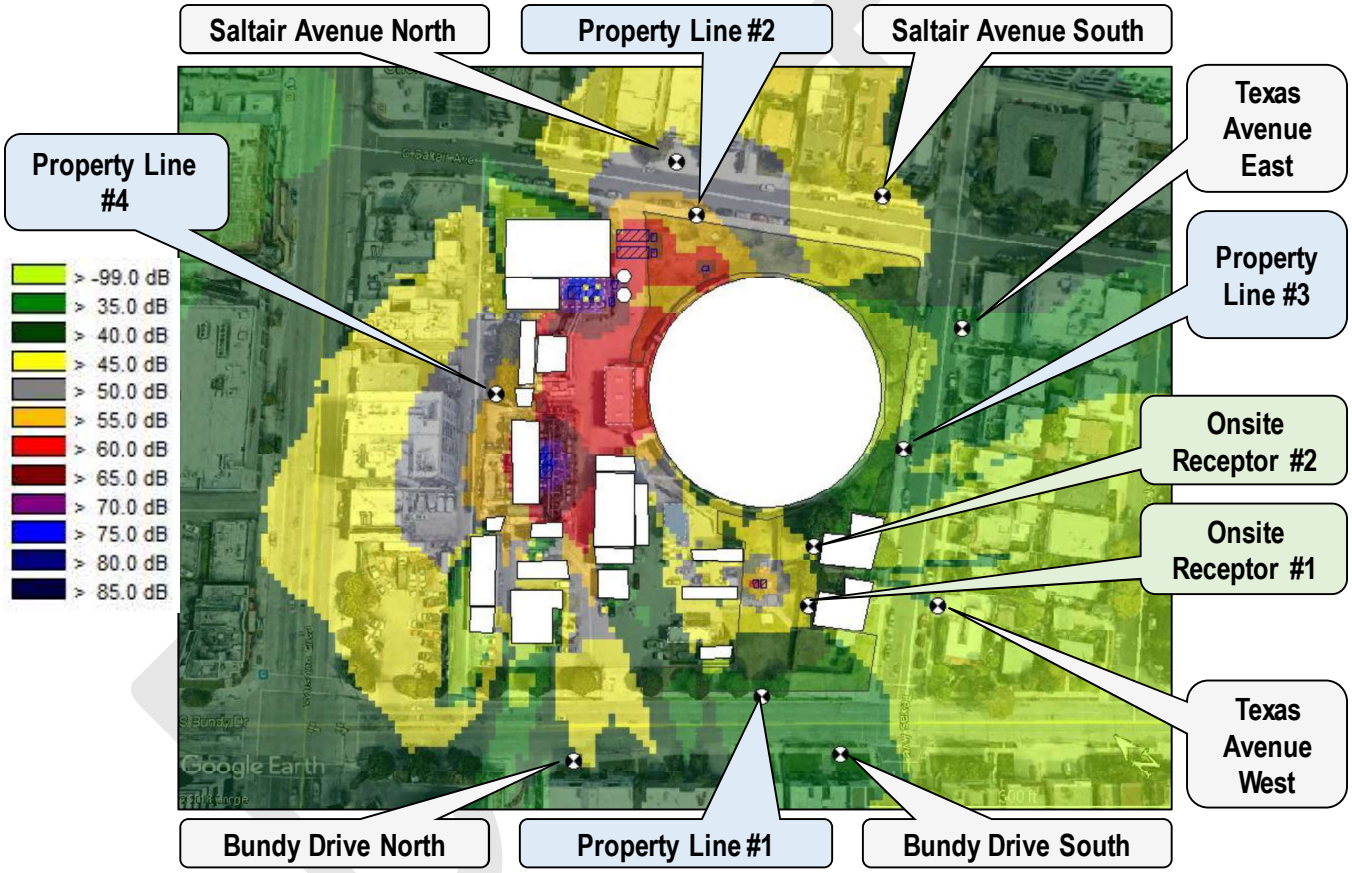

Figure 3. Predicted Aggregate Sound Propagation (dBA) from Newly Added Noise-Producing Operating Equipment Sources Associated with Arcadia WTP Expansion

Olympic Well Field Restoration

Predicted sound propagation from operation of each of the newly installed pumps (SM-10i, SM-8, SM-9, and SM-11i) are shown in Figures 4, 5, 6, 7, and 8. Predicted sound levels are at or below 60 dBA L_{eq} where the Olympic Boulevard extent abuts the commercial properties, and thus, would be compliant with the Santa Monica nighttime sound level threshold. For SM-11i operation in proximity to the nearest residences along Exposition Boulevard, predicted noise levels are less than 50 dBA L_{eq}, and would thus be compliant with the Santa Monica nighttime sound level threshold for those low-density-housing zoned parcels.



Figure 4. Predicted Aggregate Sound Propagation (dBA) from Olympic Well Field Newly Added Noise-Producing Operating Injection Well (SM-10i) Pump Near Olympic Boulevard and 26th Street



Figure 5. Predicted Aggregate Sound Propagation (dBA) from Olympic Well Field Newly Added Noise-Producing Operating Well (SM-8) Pump Near Olympic Boulevard and Stewart Street



Figure 6. Predicted Aggregate Sound Propagation (dBA) from Olympic Well Field Newly Added Noise-Producing Operating Well (SM-9) Pump Near the New Roads School at Olympic Boulevard and Franklin Street



Figure 7. Predicted Aggregate Sound Propagation (dBA) from Olympic Well Field Newly Added Noise-Producing Operating Injection Well (SM-11i) Pump, at Alternative Location #1, Near Exposition Boulevard

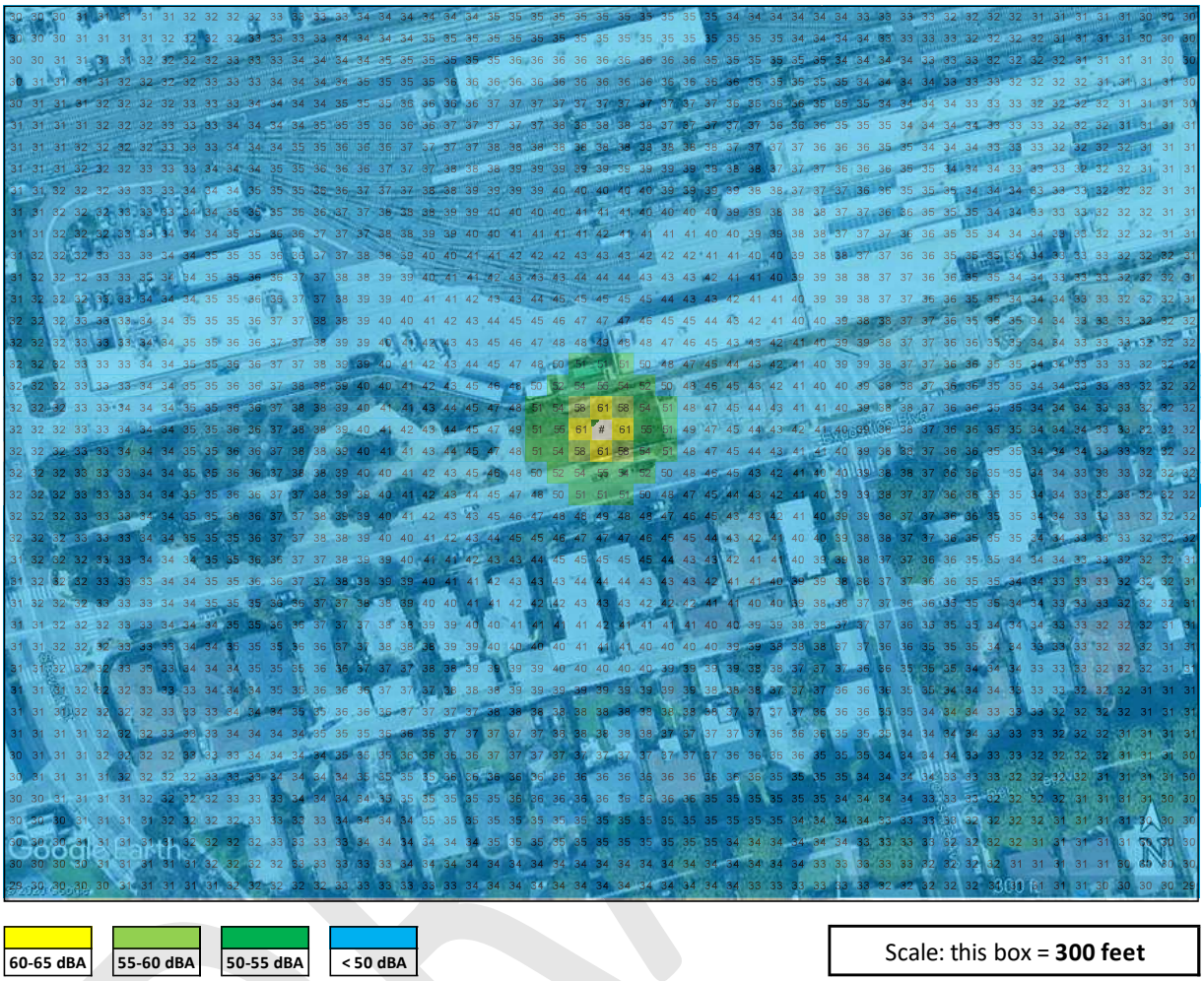

Figure 8. Predicted Aggregate Sound Propagation (dBA) from Olympic Well Field Newly Added Noise-Producing Operating Injection Well (SM-11i) Pump, at Alternative Location #2, Near Exposition Boulevard

Appendix E

Construction Trip Generation

A level of service analysis is not warranted under CEQA; therefore, there are no programs, plans, ordinances, or policies that construction traffic has the potential to conflict with. An assessment of construction-related trips for short-term construction has been prepared to discuss temporary affects to the nearby roadways for informational purposes.

The Institute of Transportation Engineers' Trip Generation Manual does not contain trip rates for construction-related activities associated with the proposed Project. Trip generation for construction Projects is based on average or peak number of workers and trucks that would be required for the proposed construction activities. Construction traffic includes the number of workers and the amount of delivery (vendor) and haul truck traffic that would be generated to and from the site daily and during the AM and PM peak hours. Construction workers would travel to and from the proposed Project components utilizing roadways near each site. For trucks, one potential haul route for transporting construction waste from the WTP facility to a site in West LA has been identified as traveling east along Wilshire Boulevard to south along Interstate(I-) 405 and east along I-10.

The Olympic Well Field Restoration component includes construction of four well completions, and construction of each would require approximately 2 months. Construction would occur between the hours of 8:00 A.M. and 6:00 P.M., Monday through Friday and 9:00 A.M to 5:00 PM on Saturdays. Nighttime construction work is not anticipated; however, in the event that extended hours, including nighttime hours, are required, additional permits would be required.

Based on the weekday construction hours, most trips generated by construction workers would occur during the AM peak hour since the daily work shift starts at 8:00 a.m. Assuming an 8 hour work shift, most of the workers would leave during the PM peak hour before 6:00 p.m. For the purposes of this analysis, it is conservatively assumed that most of the construction worker traffic may arrive during the AM peak hour, and may leave during the PM peak hour. The vendor trucks and haul trucks were assumed to be distributed evenly throughout the work shift, however at least one vendor and haul trip was assumed to occur during the AM and PM peak hours. Well Field construction would typically include three construction phases - grading of the well pad, well equipping, and well fencing. Table 3.17-1 provides a summary of worker, vendor and haul trips associated with each of three phases of Well Field construction.

Table 3.17-1 Well Field Construction Trip Generation

Phase/Vehicle Type	Daily Quantity		Daily Trips	AM Peak Hour			PM Peak Hour		
				In	*Out*	*Total*	*In*	*Out*	*Total*
Trip Generation									
Grading Well Pad									
Workers[1]	6	workers	12	6	0	6	0	6	6
Vendor Trucks[2]	3	trucks	6	1	0	1	0	1	1
Haul trucks[2]	2	trucks	4	1	0	1	0	1	1
Subtotal Grading Well Pad			*22*	*8*	*0*	*8*	*0*	*8*	*8*
Building Construction – Well Equipping									
Workers[1]	4	workers	8	4	0	4	0	4	4
Vendor Trucks[2]	1	trucks	2	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	0	0
Subtotal Well Equipping			*10*	*5*	*0*	*5*	*0*	*5*	*5*
Building Construction – Artistic Fencing									
Workers[1]	4	workers	8	4	0	4	0	4	4
Vendor Trucks[2]	1	trucks	2	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	0	0
Subtotal Artistic Fencing			*10*	*5*	*0*	*5*	*0*	*5*	*5*
Trip Generation with PCE									
Grading Well Pad									
Workers (1.0 PCE)	6	workers	12	6	0	6	0	6	6
Vendor Trucks (2.0 PCE)	3	trucks	12	2	0	2	0	2	2
Haul Trucks (3.0 PCE)	2	trucks	12	3	0	3	0	3	3
Subtotal Grading Well Pad (w/PCE)			*36*	*11*	*0*	*11*	*0*	*11*	*11*
Building Construction – Well Equipping									
Workers (1.0 PCE)	4	workers	8	4	0	4	0	4	4
Vendor Trucks (2.0 PCE)	1	trucks	4	2	0	2	0	2	2
Haul Trucks (3.0 PCE)	0	trucks	0	0	0	0	0	0	0
Subtotal Well Equipping (w/ PCE)			*12*	*6*	*0*	*6*	*0*	*6*	*6*
Building Construction – Artistic Fencing									
Workers (1.0 PCE)	4	workers	8	4	0	4	0	4	4
Vendor Trucks (2.0 PCE)	1	trucks	2	2	0	2	0	2	2
Haul Trucks (3.0 PCE)	0	trucks	0	0	0	0	0	0	0
Subtotal Artistic Fencing (w/PCE)			*10*	*6*	*0*	*6*	*0*	*6*	*6*

Source: Dudek 2020

Notes: PCE = Passenger Car Equivalent

1 As construction hours are from 8:00 a.m. to 6:00 p.m., this analysis conservatively assumes that all the construction workers will arrive during the AM peak hour and leave during the PM peak hour;

2 Vendor and haul trucks are assumed to be distributed evenly across the 8-hour work shift, with the assumption that at least one trip would occur during the AM and the PM peak hour.

As shown in Table 3.17-1, the grading phase of the Project is expected to generate maximum number of trips, i.e., approximately 22 daily trips, with 8 AM peak-hour trips (8 inbound and 0 outbound), and 8 PM peak-hour trips (0 inbound and 8 outbound). With the application of passenger-car equivalence (PCE) factors to truck trips, the proposed Project would generate 36 PCE daily trips, with 11 PCE trips during the

AM peak hour (11 inbound and 0 outbound) and 11 PCE trips during the PM peak hour (0 inbound and 11 outbound). Although none of the construction phases of an individual well overlap, construction of any of the four wells could overlap, however, specific details of the construction schedule are not known at this time.

Table 3.17-2 provides the anticipated overlap of phases for the Olympic Pipeline component of the proposed Project.

Table 3.17-2. Olympic Pipeline Construction Trip Generation

Phase/Vehicle Type	Daily Quantity		Daily Trips	AM Peak Hour			PM Peak Hour		
				In	*Out*	*Total*	*In*	*Out*	*Total*
Trip Generation									
1. Site Preparation									
Workers[1]	5	workers	10	5	0	5	0	5	5
Vendor Trucks[2]	2	trucks	4	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	0	0
		Subtotal	**14**	**6**	**0**	**6**	**0**	**6**	**6**
2. Grading-Installation									
Workers[1]	6	workers	12	6	0	6	0	6	6
Vendor Trucks[2]	2	trucks	4	1	0	1	0	1	1
Haul trucks[2]	4	trucks	8	1	0	1	1	1	1
		Subtotal	**24**	**8**	**0**	**8**	**1**	**8**	**8**
3. Grading-Slurry Backfill									
Workers[1]	2	workers	4	2	0	2	0	2	2
Vendor Trucks[2]	2	trucks	4	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	0	0
		Subtotal	**8**	**3**	**0**	**3**	**0**	**3**	**3**
4. Continual Paving									
Workers[1]	3	workers	6	3	0	3	0	3	3
Vendor Trucks[2]	2	trucks	4	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	0	0
		Subtotal	**10**	**4**	**0**	**4**	**0**	**4**	**4**
5. Continual Pavement Striping									
Workers[1]	2	workers	4	2	0	2	0	2	2
Vendor Trucks[2]	2	trucks	4	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	0	0
		Subtotal	**8**	**3**	**0**	**3**	**0**	**3**	**3**
6. Final Paving									
Workers[1]	3	workers	6	3	0	3	0	3	3
Vendor Trucks[2]	2	trucks	4	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	-1	0
		Subtotal	**10**	**4**	**0**	**4**	**0**	**4**	**4**
7. Final Pavement Striping									
Workers[1]	2	workers	4	2	0	2	0	2	2
Vendor Trucks[2]	2	trucks	4	1	0	1	0	1	1
Haul trucks[2]	0	trucks	0	0	0	0	0	0	0
		Subtotal	**8**	**3**	**0**	**3**	**0**	**3**	**3**
Peak Construction (Overlap of Phases 2,3, 4 and 5)									

Table 3.17-2. Olympic Pipeline Construction Trip Generation

Phase/Vehicle Type	Daily Quantity		Daily Trips	AM Peak Hour			PM Peak Hour		
				In	*Out*	*Total*	*In*	*Out*	*Total*
Workers[1]	13	workers	26	13	0	13	0	13	13
Vendor Trucks[2]	8	trucks	16	1	1	2	1	1	2
Haul trucks[2]	4	trucks	8	1	0	1	0	1	1
Subtotal			**50**	**15**	**1**	**16**	**1**	**15**	**16**
Trip Generation with PCE									
Peak Construction w/PCE (Overlap of Phases 2,3, 4 and 5)									
Workers (1.0 PCE)	13	workers	26	13	0	13	0	13	13
Vendor Trucks (2.0 PCE)	8	trucks	32	2	2	4	2	2	4
Haul Trucks (3.0 PCE)	4	trucks	24	3	0	3	0	3	3
Subtotal (w/ PCE)			**82**	**18**	**2**	**20**	**2**	**18**	**20**

Source: Dudek 2020

Notes: PCE = Passenger Car Equivalent

1 As construction hours are from 8:00 a.m. to 6:00 p.m., this analysis conservatively assumes that all the construction workers will arrive during the AM peak hour and leave during the PM peak hour;

2 Vendor and haul trucks are assumed to be distributed evenly across the 8-hour work shift, with the assumption that at least one trip would occur during the AM and the PM peak hour.

Olympic AWTP and Arcadia WTP Expansion

As shown in Table 3.17-2, an anticipated overlap of phases related to installation, slurry backfill, paving, and pavement striping is expected to generate maximum number of trips, i.e., approximately 50 daily trips, with 16 AM peak-hour trips (15 inbound and 1 outbound), and 16 PM peak-hour trips (1 inbound and 15 outbound). With the application of passenger-car equivalence (PCE) factors to truck trips, the proposed Project would generate 82 PCE daily trips, with 20 PCE trips during the AM peak hour (18 inbound and 2 outbound) and 20 PCE trips during the PM peak hour (2 inbound and 18 outbound).

Table 3.17-3 provides the anticipated overlap of phases for the Olympic Pipeline component of the proposed Project.

Table 3.17-3. AWTP and Arcadia WTP Expansion Construction Trip Generation

Phase/Vehicle Type	Daily Quantity		Daily Trips	AM Peak Hour			PM Peak Hour		
				In	*Out*	*Total*	*In*	*Out*	*Total*
Trip Generation									
1. Demolition									
Workers	7	workers	14	7	0	7	0	7	7
Vendor Trucks	0	trucks	0	0	0	0	0	0	0
Haul trucks	1	trucks	2	1	0	1	0	1	1
Subtotal			**16**	**8**	**0**	**8**	**0**	**8**	**8**
2. Site Preparation and Grading									
Workers	6	workers	12	6	0	6	0	6	6
Vendor Trucks	0	trucks	0	0	0	0	0	0	0
Haul trucks	2	trucks	4	0	0	1	0	1	1

Table 3.17-3. AWTP and Arcadia WTP Expansion Construction Trip Generation

Phase/Vehicle Type	Daily Quantity		Daily Trips	AM Peak Hour			PM Peak Hour		
				In	*Out*	*Total*	*In*	*Out*	*Total*
		Subtotal	**16**	**6**	**0**	**7**	**0**	**7**	**7**
3. Building Construction 1									
Workers	5	workers	10	5	0	5	0	5	5
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**12**	**6**	**0**	**6**	**0**	**6**	**6**
4. Building Construction 2									
Workers	6	workers	12	6	0	6	0	6	6
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**14**	**7**	**0**	**7**	**0**	**7**	**7**
5. Building Construction 3									
Workers	6	workers	12	6	0	6	0	6	6
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**14**	**7**	**0**	**7**	**0**	**7**	**7**
6. Building Construction 4									
Workers	8	workers	16	8	0	8	0	8	8
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**18**	**9**	**0**	**9**	**0**	**9**	**9**
7. Building Construction 5									
Workers	4	workers	8	4	0	4	0	4	4
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**10**	**5**	**0**	**5**	**0**	**5**	**5**
8. Building Construction 6									
Workers	12	workers	24	12	0	12	0	12	12
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**26**	**13**	**0**	**13**	**0**	**13**	**13**
9. Building Construction 7									
Workers	4	workers	8	4	0	4	0	4	4
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**10**	**5**	**0**	**5**	**0**	**5**	**5**
10. WTP Architectural Coating									
Workers	6	workers	12	6	0	6	0	6	6
Vendor Trucks	1	trucks	2	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**14**	**7**	**0**	**7**	**0**	**7**	**7**
11. WTP Paving									
Workers	6	workers	12	6	0	6	0	6	6
Vendor Trucks	2	trucks	4	1	0	1	0	1	1
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**16**	**7**	**0**	**7**	**0**	**7**	**7**
Peak Construction (Overlap of Phases 4,5,6,7 and 8)									

Table 3.17-3. AWTP and Arcadia WTP Expansion Construction Trip Generation

Phase/Vehicle Type	Daily Quantity		Daily Trips	AM Peak Hour			PM Peak Hour		
				In	*Out*	*Total*	*In*	*Out*	*Total*
Workers	36	workers	72	36	0	36	0	36	36
Vendor Trucks	5	trucks	10	1	1	2	1	1	2
Haul trucks	0	trucks	0	0	0	0	0	0	0
		Subtotal	**82**	**37**	**1**	**38**	**1**	**37**	**38**
Trip Generation with PCE									
Peak Construction (Overlap of Phases 4,5,6,7 and 8)									
Workers (1.0 PCE)	36	workers	72	36	0	36	0	36	36
Vendor Trucks (2.0 PCE)	5	trucks	20	2	2	4	2	2	4
Haul Trucks (3.0 PCE)	0	trucks	0	0	0	0	0	0	0
		Subtotal (w/ PCE)	**92**	**38**	**2**	**40**	**2**	**38**	**40**

Source: Dudek 2020

Notes: PCE = Passenger Car Equivalent

1 As construction hours are from 8:00 a.m. to 6:00 p.m., this analysis conservatively assumes that all the construction workers will arrive during the AM peak hour and leave during the PM peak hour;

2 Vendor and haul trucks are assumed to be distributed evenly across the 8-hour work shift, with the assumption that at least one trip would occur during the AM and the PM peak hour.

As shown in Table 3.17-3, an anticipated overlap of phases related to building construction is expected to generate maximum number of trips, i.e., approximately 82 daily trips, with 38 AM peak-hour trips (37 inbound and 1 outbound), and 38 PM peak-hour trips (1 inbound and 37 outbound). With the application of passenger-car equivalence (PCE) factors to truck trips, the proposed Project would generate 92 PCE daily trips, with 40 PCE trips during the AM peak hour (38 inbound and 2 outbound) and 40 PCE trips during the PM peak hour (2 inbound and 38 outbound).

This appendix has been prepared for informational purposes.