
Appendix B

Air Quality, Greenhouse Gas Emissions, and Energy Technical Report

Air Quality, Greenhouse Gas Emissions, and Energy Technical Report

Olive Park Apartments **City of Oceanside, California**

MAY 2024

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AAQs	ambient air quality standards
AB	Assembly Bill
AERMOD	American Meteorological Society/EPA Regulatory Model
APN	Assessor's Parcel Number
BNSF	Burlington Northern Santa Fe
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAP	Climate Action Plan
CARB	California Air Resources Board
CalEEMod	California Emissions Estimator Model
CalGreen	California Green Building Standards
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CH ₄	methane
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CPUC	California Public Utilities Commission
DPM	diesel particulate matter
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	electric vehicle
GHG	greenhouse gas
g/L	grams per liter
GWP	global warming potential
HAP	hazardous air pollutant
HFCs	hydrofluorocarbons
HRA	health risk assessment
IPCC	Intergovernmental Panel on Climate Change
kBTU	one thousand British Thermal Units
kWh	kilowatt-hour
LEV	Low-Emission Vehicle
LOS	level of service
MDA-R	Medium Density Residential designation
MERV	Minimum Efficiency Reporting Value
MPO	metropolitan planning organizations
MT	metric tons
NAAQS	National Ambient Air Quality Standards
NCTD	North County Transit District

Acronym/Abbreviation	Definition
NHTSA	National Highway Traffic Safety Administration
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
N ₂ O	nitrous oxide
OEHHA	Office of Environmental Health Hazard Assessment
O ₃	ozone
PDF	project design features
PFCs	perfluorocarbons
PM _{2.5}	fine particulate matter
PM ₁₀	coarse particulate matter
project	Olive Park Apartments Project
PV	Photo-voltaic
RAQS	Regional Air Quality Strategy
Regional Plan	San Diego Forward: The Regional Plan
ROG	reactive organic gases
RPS	Renewables Portfolio Standard
RS	Single Family Residential designation
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
Scoping Plan	CARB Climate Change Scoping Plan
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDG&E	San Diego Gas & Electric Company
SF ₆	sulfur hexafluoride
SIP	state implementation plan
SLCP	short-lived climate pollutant
SO ₂	sulfur dioxide
SO _x	sulfur oxides
TAC	toxic air contaminant
TOD	transit-oriented development
VMT	vehicle miles traveled
VOC	volatile organic compound
ZEV	zero-emission vehicle

Executive Summary

The purpose of this technical report is to assess the potential air quality, greenhouse gas (GHG) and energy impacts associated with implementation of the Olive Park Apartments Project (project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act Guidelines.

Project Overview

The project proposes development of up to 282 multi-family residential units on a previously disturbed portion of vacant parcel (APN 162-111-04) that covers approximately 43.50 acres (i.e., Parcel Area), located in the Mira Costa Neighborhood Area of the City of Oceanside, California. The Parcel Area is generally located south of Oceanside Boulevard and west of College Boulevard; more specifically, west of the terminus of Olive Drive and south of the North County Transit District (NCTD) rail line and College Boulevard Sprinter Station. The project site is located approximately 1.5 miles north of State Route 78.

Project Design Features

The proposed project would implement both construction-related and operational project design features (PDFs) that would have the effect of reducing emissions of criteria air pollutants and toxic air contaminants (TACs) as follows:

- PDF-AQ-1: Standard construction practices that would be employed to reduce fugitive dust emissions include:
- A minimum of two applications of water shall be applied during grading between dozer/grader passes.
 - Paving, chip sealing, or chemical stabilization of internal roadways shall be applied after completion of grading.
 - Grading shall be terminated if winds exceed 25 miles per hour (mph).
 - All exposed surfaces shall maintain a minimum soil moisture of 12 percent.
 - Dirt storage piles shall be stabilized by chemical binders, tarps, fencing, or other erosion control.
 - Vehicle speeds shall be limited to 15 mph on unpaved roads.

The above measures are consistent with SDAPCD Rule 55 – Fugitive Dust Control, which seeks to limit fugitive dust that may be generated during grading and construction activities.

- PDF-AQ-2: Require the installation of only electric fireplaces in future residential construction. Future residential units are prohibited from having wood-burning fireplaces or stoves.

- PDF-AQ-3: The project will provide temporary electricity to the project site during the building construction phases and prohibit the use of diesel-fueled/natural gas fueled generators during the building construction phases.

- PDF-AQ-4: The project will limit air compressors used during the architectural coating/painting phases to equipment that is electric-powered.

PDF-AQ-1, PDF-AQ-2, PDF-AQ-3, PDF-AQ-4, and PDF-GHG-1 would be required as City-imposed Conditions of Approval and/or incorporated into the project's MMRP to ensure they are implemented during construction and operation of the proposed project.

Air Quality

The air quality impact analysis evaluated the potential for adverse impacts under the applicable CEQA significance criteria related to air quality due to construction and operational emissions resulting from the project. Air Quality Plan Consistency

If a project proposes development that is greater than that anticipated in the local air quality plan and the growth projections set by the San Diego Association of Governments (SANDAG), the project might be in conflict with the State Implementation Plan and Regional Air Quality Strategy, and therefore may contribute to a potentially significant cumulative impact on air quality. The proposed project is consistent with the current air quality plan because it is consistent with the current land use and zoning designation, and the anticipated growth associated with the project does not exceed that projected by SANDAG. In addition, the project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations. Based on these considerations, impacts related to the project's potential to conflict with or obstruct implementation of the applicable air quality plan would be less than significant.

Criteria Air Pollutant Emissions

Impacts were evaluated for their significance based on the San Diego Air Pollution Control District (SDAPCD) mass daily criteria air pollutant thresholds of significance. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards (criteria) for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O₃), nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs) (also referred to as reactive organic gases), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), PM₁₀, and PM_{2.5}. VOCs and NO_x are important because they are precursors to O₃.

Construction Emissions

Construction of the project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). The maximum daily construction emissions would not exceed the SDAPCD significance thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5} during construction. Therefore, the project would have a less than significant impact.

Operational Emissions

The analysis herein utilized an operational year of 2028 for full build-out based on the anticipated construction schedule. Operation of the project would generate operational criteria air pollutants from mobile sources (vehicles), area sources (consumer product use, architectural coatings, and landscape maintenance equipment), and energy

(natural gas). Maximum operational emissions would not exceed the SDAPCD operational significance thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}.

Cumulative Impacts

The potential for a project to result in a cumulatively considerable impact, per the SDAPCD guidance and thresholds, is based on the project's potential to exceed the project-specific daily thresholds. Because maximum construction and operational emissions would not exceed the SDAPCD significance thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}, the project would not result in a cumulatively considerable increase in criteria air pollutants.

Exposure of Sensitive Receptors

The proposed project includes up to 282 residential units that are located more than 500 feet from a signalized intersection that would operate at or below LOS E, but the project plus cumulative conditions would result in an intersection (Olive Drive and College Boulevard) operating at Level of Service (LOS) F in the year 2050 during the AM Peak-hour based on the Local Transportation Study. However, based on the analysis using the County of San Diego's recent CO hotspot analysis approach for its General Plan Update and given the existing and continued improvement in ambient CO concentrations, potential project-generated impacts associated with CO hotspots would be **less than significant**.

As mentioned above, construction activities would not generate emissions in excess of the SDAPCD site-specific mass daily thresholds; therefore, site-specific construction impacts during construction of the project would be less than significant. A health risk assessment (HRA) was also conducted to determine the potential impacts of exposure to diesel particulate matter (DPM), which is a TAC, at existing proximate sensitive receptors in the project vicinity and to on-site receptors while construction is ongoing. The results of the HRA demonstrate that after implementation of MM-AQ-1, which requires use of Tier 4 equipment during construction, the TAC exposure from construction diesel exhaust emissions would not result in cancer risk above the 10 in 1 million threshold, nor a Chronic Hazard Index greater than 1.0 to both off-site and on-site sensitive receptors. Therefore, impacts to sensitive receptors would be **less than significant with mitigation**.

Because the project would locate new sensitive receptors (residences) near an existing rail line that is a source of TACs, an HRA was prepared to evaluate the risk associated with the rail line. The results of the rail HRA determined that new on-site sensitive receptors would not be exposed to a cancer risk above the 10 in 1 million threshold, nor a Chronic Hazard Index greater than 1.0; the impact would be **less than significant**.

Based on the low incidence rate of Valley Fever in the County and project area and the implementation of fugitive dust control measures per PDF-AQ-1, the project's impact would be **less than significant** with respect to Valley Fever exposure for sensitive receptors.

Other Emissions

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the project site and, for this project based on the type of construction, would occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be **less than significant**. The project would be a residential development that would not include land uses

with sources that have the potential to generate substantial odors as defined by the CEQA significance thresholds, and impacts associated with odors during operation would be **less than significant**.

Greenhouse Gas Emissions

Global climate change is a cumulative impact under CEQA. A project contributes to this potential impact through its incremental emissions combined with the cumulative increase of all other sources of greenhouse gas (GHG) emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). GHG emissions are measured in metric tons of CO₂ equivalent (MT CO₂e), which account for weighted global warming potential (GWP) factors for CH₄ and N₂O.

Project Impacts

Construction of the project would result in GHG emissions primarily associated with the use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The project would generate operational GHG emissions from area sources (landscape maintenance), energy sources (electricity consumption and natural gas combustion), mobile sources (vehicle trips), water supply and wastewater treatment, solid waste, and refrigerants. Estimated annual project-generated operational GHG emissions at buildout in 2028 would be approximately 1,604 MT CO₂e per year. Estimated annual project-generated operational emissions in 2028, plus amortized project construction emissions would be approximately 1,671 MT CO₂e per year.

As discussed in Section 3.4 of this report, the project operational emissions in 2028 plus amortized project construction emissions would be greater than the City's Climate Action Plan (CAP) establishes a screening threshold of 900 MT CO₂e per year for the sole purpose of determining whether a Project must conduct additional analysis to demonstrate consistency with the City's formally adopted CAP Consistency Checklist. As the project exceeds that screening threshold, this report includes the CAP Consistency Checklist analysis to ensure that emission targets identified in the City's CAP can be achieved considering the project's GHG emissions. The project proposes use of on-site renewable energy through solar photovoltaic (PV) roof tiles, electric vehicle (EV) charging infrastructure, and canopy coverage and permeable surface area will meet the requirements outlined in the City's Zoning Ordinance sections adopted to implement the CAP. Given these compliance with laws features, as well as the project's location within a designated Smart Growth Opportunity Area, proximity to a priority transit-oriented development (TOD) corridor, and consistency with land use and zoning designations, the proposed project is consistent with the applicable goals outlined in the City's CAP. Additionally, per the City's GHG Policy Directive (May 2023), project's must also meet the GHG-efficiency metric to confirm the project is consistent with the City's identified GHG targets. The project achieved a GHG-efficiency metric of 2.29 per service population, which is below the City's identified target of 3.0 per service population for project being built post-2025. As the analysis in this report demonstrates h, the project is not expected to generate GHG emissions that may have a significant impact on the environment, and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs and the impact would be **less than significant**.

Energy

Wasteful, Inefficient, or Unnecessary Consumption of Energy Resources

As the analysis below demonstrates, the project’s construction and operational would not result in wasteful, inefficient or unnecessary consumption of energy resources with incorporation of PDF-GHG-1 and compliance with laws; therefore, potential impacts would be **less than significant**.

Conflict with Renewable Energy or Energy Efficiency Plans

The project would comply with applicable energy plans and regulatory requirements related to the same. In addition, PDF-GHG-1 would go above and beyond current energy code standards to further enhance energy efficiencies and provide renewable energy to the project site. Accordingly, impacts would be **less than significant**.

Cumulative Energy Impact

The project itself would not result in wasteful, inefficient, or unnecessary use of energy nor conflict with applicable energy plans and as a result it would not contribute to a cumulative energy impact. The impact would be **less than significant**.

Summary of Findings

Table ES-1 provides a summary of impact determinations.

Table ES-1. Summary of Impact Determinations

Analysis	Report Section	CEQA Checklist Question	Significance Determinations	
			Unmitigated	Mitigated
Air Quality				
Air Quality Management Plan	2.4.1	AQ-1	Less than Significant	No Mitigation Required
Cumulatively Considerable Net Increase of Any Criteria Pollutant	2.4.2	AQ-2	Less than Significant	No Mitigation Required
Sensitive Receptors	2.4.3	AQ-3	Potentially Significant	Less than Significant
Other Emissions and Odors	2.4.4	AQ-4	Less than Significant	No Mitigation Required
Greenhouse Gas Emissions				
Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment, or would the project conflict with	3.4.1	GHG-1 and GHG-2	Less than Significant	No Mitigation Required

Table ES-1. Summary of Impact Determinations

Analysis	Report Section	CEQA Checklist Question	Significance Determinations	
			Unmitigated	Mitigated
an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				
Energy				
Wasteful, Inefficient, or Unnecessary Consumption of Energy Resources	4.4.1	EN-1	Less than Significant	No Mitigation Required
Conflict with Renewable Energy or Energy Efficiency Plans	4.4.2	EN-2	Less than Significant	No Mitigation Required
Result in a cumulatively considerable energy impact?	4.4.3	EN-3	Less than Significant	No Mitigation Required

1 Introduction

1.1 Report Purpose and Scope

The purpose of this technical report is to assess the potential air quality, greenhouse gas (GHG) and energy impacts associated with construction and operation of the Olive Park Apartments Project (project). This analysis uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.) and the emissions-based significance thresholds recommended by the San Diego Air Pollution Control District (SDAPCD) and other applicable thresholds of significance.

1.2 Project Location

The project area is generally located south of Oceanside Boulevard and west of College Boulevard; more specifically, west of the terminus of Olive Drive and south of the North County Transit District (NCTD) rail line and College Boulevard Sprinter Station (Figure 1). The project site is located approximately 1.5 miles north of State Route 78.

1.3 Project Description

The project proposes development on a previously disturbed portion of vacant parcel (APN 162-111-04) that covers approximately 43.50 acres (i.e., Parcel Area), located in the Mira Costa Neighborhood Area of the City of Oceanside, California (Figure 2). The Parcel Area is generally located south of Oceanside Boulevard and west of College Boulevard; more specifically, west of the terminus of Olive Drive and south of the North County Transit District (NCTD) rail line and College Boulevard Sprinter Station. The project site is located approximately 1.5 miles north of State Route 78.

Development of the project will disturb an on-site area of approximately 10.87 acres (On-Site Impact Area). The final pad on which the project will sit will be approximately 6.11 acres (Net Developable Pad). Project development will disturb approximately 0.88 acres outside the Parcel Area (Off-Site Impact Area) for a Total Impact Area of 11.75 acres.

Uses in the vicinity of the project site primarily include residential development, open space, and commercial/industrial uses. The project site abuts existing residential developments to the east and south, and commercial/industrial uses to the north and undeveloped land to the west. Areas surrounding the project site are zoned commercial, (north and west of the project site) and residential zones (south and east of the project site). The NCTD rail line and College Boulevard Sprinter Station and the rail line for the same and is located 50 feet north of the project site.

The project site has a General Plan designation of Medium Density Residential (MDA-R) with a maximum density of 9.9 du/ac. The project site has a zoning designation of RS-Single Family Residential with a maximum density of 5.9 du/ac. Pursuant to density bonus law, the project must be evaluated against the higher of the zoning or General Plan density.

The project proposes to develop a maximum of 260 multi-family residential units (Option A) with an option to build 282 dwelling units (Option B) with a different unit mix. All the dwelling units would be affordable to low, very-low,

and extremely-low income households with one to three bedroom/two bath units. Access to the site would be provided via Olive Drive, at the eastern side of the project site. An emergency access only entry/exit to the project would be provided adjacent to the NCTD rail line. The development would comply with the minimum parking standards for a 100% affordable project. The proposed project will voluntarily provide 346 parking spaces regardless of option chosen for building No. 2.

As outlined in Table 1, the project development would include two separate residential buildings that may be developed in one or two phases. The buildings would include a mix of 1-, 2-, or 3-bedroom units.

Table 1. Proposed Building Summary and Unit Count

Building Number	Building Type	Number of Units
1	Residential 4-story	172
2 (Option A)	Residential 4-story	88
2 (Option B)	Residential 4-story	110
Total With Option A		260
Total with Option B		282

The proposed project would also include an open space area that will be maintained and managed by the project that will include an all-weather accessible pedestrian/bicycle connection for the project and neighboring residents to the adjacent Sprinter station at College Boulevard.

The approvals required for the project include a Development Plan, and a request for Density Bonus with waivers/incentives for development standards such as hillside development standards, retaining wall height, and usable open space. The State Density Bonus Law requires the City to grant up to four incentives and unlimited waivers

1.4 Project Design Features

The proposed project would implement construction-related and operational project design features (PDFs) intended to reduce emissions of criteria air pollutants and toxic air contaminants (TACs) as follows:

PDF-AQ-1: Standard construction practices that would be employed to reduce fugitive dust emissions include:

- A minimum of two applications of water shall be applied during grading between dozer/grader passes.
- Paving, chip sealing, or chemical stabilization of internal roadways shall be applied after completion of grading.
- Grading shall be terminated if winds exceed 25 miles per hour (mph).
- All exposed surfaces shall maintain a minimum soil moisture of 12 percent.

- Dirt storage piles shall be stabilized by chemical binders, tarps, fencing, or other erosion control.
- Vehicle speeds shall be limited to 15 mph on unpaved roads.

The above measures are consistent with SDAPCD Rule 55 – Fugitive Dust Control, which seeks to limit fugitive dust that may be generated during grading and construction activities.

PDF-AQ-2: Require the installation of only electric fireplaces in future residential construction. Future residential units are prohibited from having wood-burning fireplaces or stoves.

PDF-AQ-3: The project will provide temporary electricity to the project site during the building construction phases and prohibit the use of diesel-fueled/natural gas fueled generators during the building construction phases.

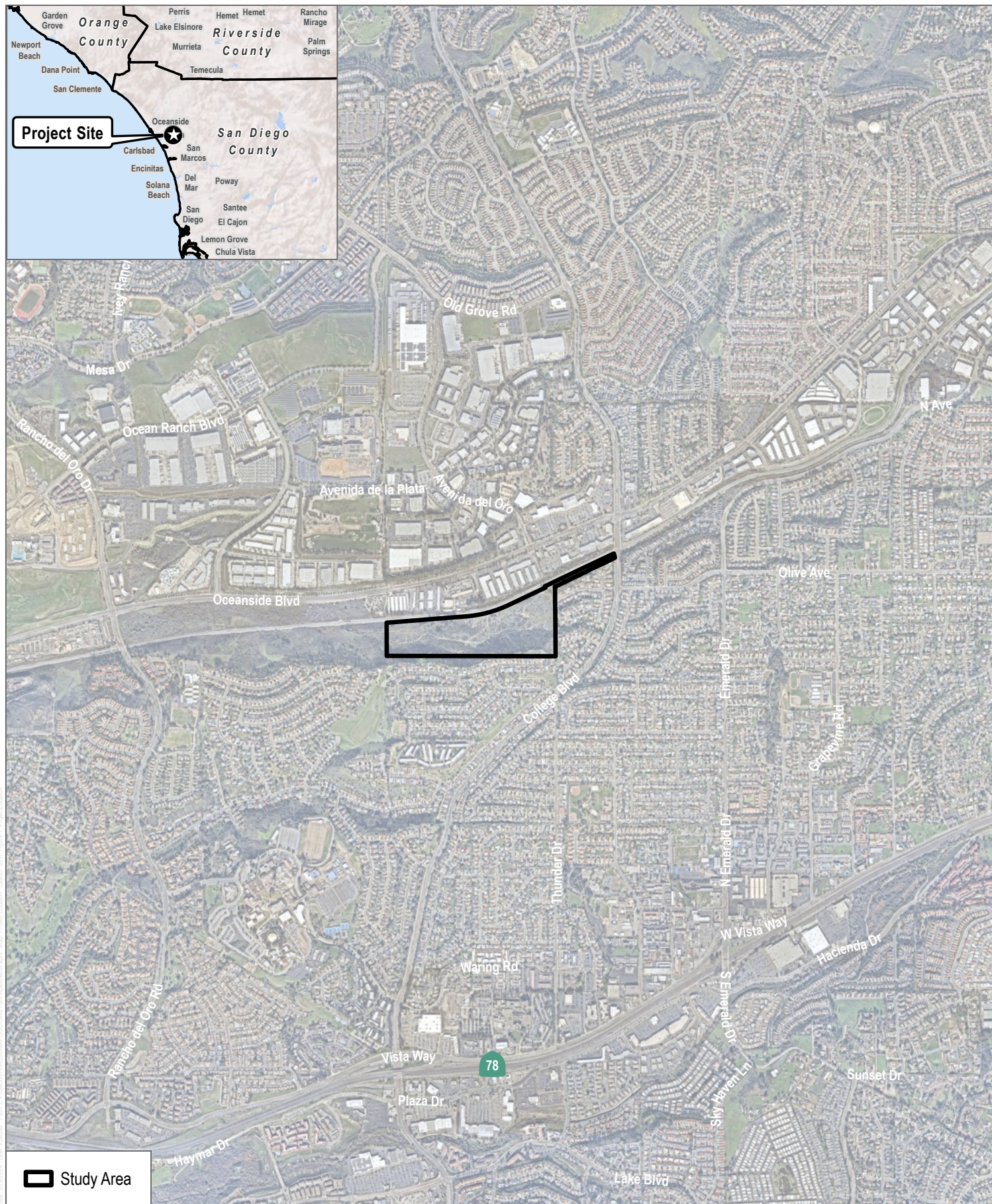
PDF-AQ-4: The project will limit air compressors used during the architectural coating/painting phases to equipment that is electric-powered.

PDF-GHG-1: The project shall include the following sustainability measures:

- Electric vehicle parking and charging
- Bicycle parking
- Photo-voltaic (PV) systems installed on each building
- Drought-tolerant landscaping and water efficient irrigation system
- Connection to the North County Transit District Sprinter Station

PDF-AQ-1, PDF-AQ-2, PDF-AQ-3, PDF-AQ-4 and PDF-GHG-1 would be required as City-imposed Conditions of Approval to ensure they are implemented during construction and operation of the proposed project.

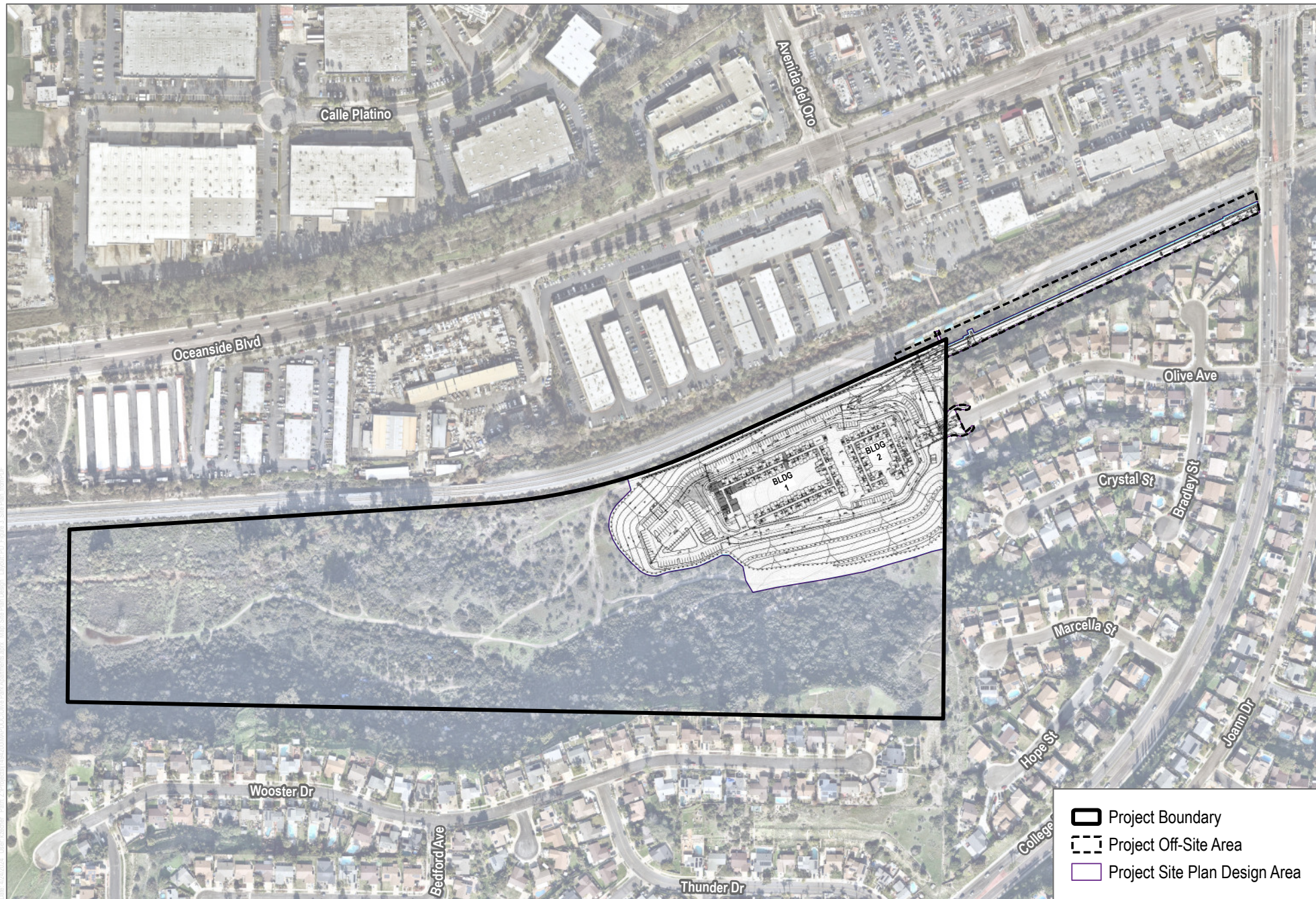
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SOURCE: SanGIS 2023

FIGURE 1
Project Location
 Olive Park Apartments

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SOURCE: SanGIS 2023

DUDEK



0 195 390 Feet

FIGURE 2
Site Plan Design
Olive Park Apartments

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2 Air Quality

2.1 Environmental Setting

2.1.1 Climate and Topography

The weather of the San Diego region, as in most of Southern California, is influenced by the Pacific Ocean and its semi-permanent high-pressure systems that result in dry, warm summers and mild, occasionally wet winters. The average temperature ranges (in degrees Fahrenheit) from the mid-40s to the high 90s. Most of the region's precipitation falls from November to April, with infrequent (approximately 10%) precipitation during the summer. The average seasonal precipitation along the coast is approximately 10 inches; the amount increases with elevation as moist air is lifted over the mountains (WRCC 2016).

The topography in the San Diego region varies greatly, from beaches on the west to mountains and desert on the east; along with local meteorology, it influences the dispersal and movement of pollutants in the basin. The mountains to the east prohibit dispersal of pollutants in that direction and help trap them in inversion layers.

The interaction of ocean, land, and the Pacific High Pressure Zone maintains clear skies for much of the year and influences the direction of prevailing winds (westerly to northwesterly). Local terrain is often the dominant factor inland, and winds in inland mountainous areas tend to blow through the valleys during the day and down the hills and valleys at night.

2.1.2 San Diego Air Basin Climatology

The project area is located within the San Diego Air Basin (SDAB) and is subject to the SDAPCD guidelines and regulations. The SDAB is one of 15 air basins that geographically divide the State of California. The SDAB is currently classified as a federal nonattainment area for ozone (O_3) and a state nonattainment area for particulate matter less than 10 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$), and O_3 .

The SDAB, which lies in the southwest corner of California and comprises the entire San Diego region, covers 4,260 square miles and is an area of high air pollution potential. The SDAB experiences warm summers, mild winters, infrequent rainfalls, light winds, and moderate humidity. This usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds.

The SDAB experiences frequent temperature inversions. Subsidence inversions occur during the warmer months as descending air associated with the Pacific High Pressure Zone meets cool marine air. The boundary between the two layers of air creates a temperature inversion that traps pollutants. The other type of inversion, a radiation inversion, develops on winter nights when air near the ground cools by heat radiation and air aloft remains warm. The shallow inversion layer formed between these two air masses also can trap pollutants. As the pollutants become more concentrated in the atmosphere, photochemical reactions occur that produce O_3 , which contributes to the formation of smog. Smog is a combination of smoke and other particulates, O_3 , hydrocarbons, oxides of nitrogen (NO_x) and other chemically reactive compounds which, under certain conditions of weather and sunlight, may result in a murky brown haze that causes adverse health effects (CARB 2024a).

Light daytime winds, predominantly from the west, further aggravate the condition by driving air pollutants inland, toward the mountains. During the fall and winter, air quality problems are created due to carbon monoxide (CO) and NO_x emissions. CO concentrations are generally higher in the morning and late evening. In the morning, CO levels are elevated due to cold temperatures and the large number of motor vehicles traveling. Higher CO levels during the late evenings are a result of stagnant atmospheric conditions trapping CO in the area. Since CO is produced almost entirely from automobiles, the highest CO concentrations in the SDAB are associated with heavy traffic. Nitrogen dioxide (NO₂) levels are also generally higher during fall and winter days.

Under certain conditions, atmospheric oscillation results in the offshore transport of air from the Los Angeles region to San Diego County. This often produces high O₃ concentrations, as measured at air pollutant monitoring stations within San Diego County. The transport of air pollutants from Los Angeles to San Diego has also occurred within the stable layer of the elevated subsidence inversion, where high levels of O₃ are transported.

2.1.3 Sensitive Receptors

Air quality varies as a direct function of the amount of pollutants emitted into the atmosphere, the size and topography of the air basin, and the prevailing meteorological conditions. Air quality problems arise when the rate of pollutant emissions exceeds the rate of dispersion.

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution, as identified by the California Air Resources Board (CARB), include children, older adults, and people with cardiovascular and chronic respiratory diseases. According to the SDAPCD, sensitive receptors are those who are especially susceptible to adverse health effects from exposure to toxic air contaminants, such as children, the elderly, and the ill. Sensitive receptors include residences, schools (grades Kindergarten through 12), libraries, day care centers, nursing homes, retirement homes, health clinics, and hospitals within 2 kilometers of the facility (SDAPCD 2022a). The closest sensitive receptors to the project site are single-family residences immediately adjacent to eastern project boundary on Olive Drive.

2.1.4 Pollutants and Effects

2.1.4.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards (AAQS), or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O₃, NO₂, CO, sulfur dioxide (SO₂), PM₁₀, PM_{2.5}, and lead. These pollutants are discussed in the following paragraphs.¹ In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

¹ The following descriptions of health effects for each of the criteria air pollutants associated with project construction and operations are based on the U.S. Environmental Protection Agency's "Criteria Air Pollutants" (EPA 2024a) and the California Air Resources Board's "Glossary of Air Pollutant Terms" (CARB 2024b) published information.

Ozone (O₃). O₃ is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O₃ precursors. These precursors are mainly NO_x and VOCs. The maximum effects of precursor emissions on O₃ concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O₃ formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O₃ exists in the upper atmosphere O₃ layer (stratospheric O₃) and at the Earth's surface in the troposphere.² The O₃ that the U.S. Environmental Protection Agency (EPA) and the CARB regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O₃ is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O₃. Stratospheric, or "good," O₃ occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O₃ layer, plant and animal life would be seriously harmed.

O₃ in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O₃ at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013).

Inhalation of O₃ causes inflammation and irritation of the tissues lining human airways, causing and worsening a variety of symptoms. Exposure to O₃ can reduce the volume of air that the lungs breathe in, thereby causing shortness of breath. O₃ in sufficient doses increases the permeability of lung cells, rendering them more susceptible to toxins and microorganisms. The occurrence and severity of health effects from O₃ exposure vary widely among individuals, even when the dose and the duration of exposure are the same. Research shows adults and children who spend more time outdoors participating in vigorous physical activities are at greater risk from the harmful health effects of O₃ exposure. While there are relatively few studies on the effects of O₃ on children, the available studies show that children are no more or less likely to suffer harmful effects than adults. However, there are a number of reasons why children may be more susceptible to O₃ and other pollutants. Children and teens spend nearly twice as much time outdoors and engaged in vigorous activities as adults. Children breathe more rapidly than adults and inhale more pollution per pound of their body weight than adults. Also, children are less likely than adults to notice their own symptoms and avoid harmful exposures. Further research may be able to better distinguish between health effects in children and adults. Children, adolescents and adults who exercise or work outdoors, where O₃ concentrations are the highest, are at the greatest risk of harm from this pollutant (CARB 2024a).

Nitrogen Dioxide (NO₂). NO₂ is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO₂ in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NO_x plays a major role, together with VOCs, in the atmospheric reactions that produce O₃. NO_x is formed from fuel combustion under high temperature or pressure. In addition, NO_x is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

NO₂ can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2024a). A large body of health science literature indicates that exposure to NO₂ can induce adverse health effects.

² The troposphere is the layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.

The strongest health evidence, and the health basis for the ambient air quality standards for NO₂, results from controlled human exposure studies that show that NO₂ exposure can intensify responses to allergens in allergic asthmatics. In addition, a number of epidemiological studies have demonstrated associations between NO₂ exposure and premature death, cardiopulmonary effects, decreased lung function growth in children, respiratory symptoms, emergency room visits for asthma, and intensified allergic responses. Infants and children are particularly at risk because they have disproportionately higher exposure to NO₂ than adults due to their greater breathing rate for their body weight and their typically greater outdoor exposure duration. Several studies have shown that long-term NO₂ exposure during childhood, the period of rapid lung growth, can lead to smaller lungs at maturity in children with higher levels of exposure compared to children with lower exposure levels. In addition, children with asthma have a greater degree of airway responsiveness compared with adult asthmatics. In adults, the greatest risk is to people who have chronic respiratory diseases, such as asthma and chronic obstructive pulmonary disease (CARB 2024c).

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

CO is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion and reduced mental alertness, light-headedness, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Unborn babies, infants, elderly people, and people with anemia or with a history of heart or respiratory disease are most likely to experience health effects with exposure to elevated levels of CO (CARB 2024d).

Sulfur Dioxide (SO₂). SO₂ is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO₂ are coal and oil used in power plants and industries; as such, the highest levels of SO₂ are generally found near large industrial complexes. In recent years, SO₂ concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO₂ and limits on the sulfur content of fuels.

Controlled human exposure and epidemiological studies show that children and adults with asthma are more likely to experience adverse responses with SO₂ exposure, compared with the non-asthmatic population. Effects at levels near the 1-hour standard are those of asthma exacerbation, including bronchoconstriction accompanied by symptoms of respiratory irritation such as wheezing, shortness of breath, and chest tightness, especially during exercise or physical activity. Also, exposure at elevated levels of SO₂ (above 1 parts per million [ppm]) results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of

mortality. Older people and people with cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most likely to experience these adverse effects (CARB 2024e).

SO₂ is of concern both because it is a direct respiratory irritant and because it contributes to the formation of sulfate and sulfuric acid in particulate matter (NRC 2005). People with asthma are of particular concern, both because they have increased baseline airflow resistance and because their SO₂-induced increase in airflow resistance is greater than in healthy people, and it increases with the severity of their asthma (NRC 2005). SO₂ is thought to induce airway constriction via neural reflexes involving irritant receptors in the airways (NRC 2005).

Particulate Matter (PM). Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. PM_{2.5} and PM₁₀ represent fractions of particulate matter. Coarse particulate matter (PM₁₀) consists of particulate matter that is 10 microns or less in diameter and is about 1/7 the thickness of a human hair. Major sources of PM₁₀ include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter (PM_{2.5}) consists of particulate matter that is 2.5 microns or less in diameter and is roughly 1/28 the diameter of a human hair. PM_{2.5} results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, PM_{2.5} can be formed in the atmosphere from gases such as sulfur oxides (SO_x), NO_x, and VOCs.

PM_{2.5} and PM₁₀ pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM_{2.5} and PM₁₀ can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the blood stream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM₁₀ tends to collect in the upper portion of the respiratory system, PM_{2.5} is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

A number of adverse health effects have been associated with exposure to both PM_{2.5} and PM₁₀. For PM_{2.5}, short-term exposures (up to 24-hour duration) have been associated with premature mortality, increased hospital admissions for heart or lung causes, acute and chronic bronchitis, asthma attacks, emergency room visits, respiratory symptoms, and restricted activity days. These adverse health effects have been reported primarily in infants, children, and older adults with preexisting heart or lung diseases. In addition, of all of the common air pollutants, PM_{2.5} is associated with the greatest proportion of adverse health effects related to air pollution, both in the United States and worldwide based on the World Health Organization's Global Burden of Disease Project. Short-term exposures to PM₁₀ have been associated primarily with worsening of respiratory diseases, including asthma and chronic obstructive pulmonary disease, leading to hospitalization and emergency department visits (CARB 2024f).

Long-term exposure (months to years) to PM_{2.5} has been linked to premature death, particularly in people who have chronic heart or lung diseases, and reduced lung function growth in children. The effects of long-term exposure to PM₁₀ are less clear, although several studies suggest a link between long-term PM₁₀ exposure and respiratory

mortality. The International Agency for Research on Cancer published a review in 2015 that concluded that particulate matter in outdoor air pollution causes lung cancer (CARB 2024f).

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

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

Volatile Organic Compounds (VOCs). Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O₃ are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry-cleaning solutions, and paint.

The primary health effects of VOCs result from the formation of O₃ and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs.

Sulfates. Sulfates are the fully oxidized form of sulfur, which typically occur in combination with metals or hydrogen ions. Sulfates are produced from reactions of SO₂ in the atmosphere and can result in respiratory impairment, as well as reduced visibility.

Vinyl Chloride. Vinyl chloride is a colorless gas with a mild, sweet odor, which has been detected near landfills, sewage plants, and hazardous waste sites, due to the microbial breakdown of chlorinated solvents. Short-term exposure to high levels of vinyl chloride in air can cause nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure through inhalation can cause liver damage, including liver cancer.

Hydrogen Sulfide. Hydrogen sulfide is a colorless and flammable gas that has a characteristic odor of rotten eggs. Sources of hydrogen sulfide include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants. Exposure to hydrogen sulfide can result in nuisance odors, as well as headaches and breathing difficulties at higher concentrations.

Visibility-Reducing Particles. Visibility-reducing particles are any particles in the air that obstruct the range of visibility. Effects of reduced visibility can include obscuring the viewshed of natural scenery, reducing airport safety, and discouraging tourism. Sources of visibility-reducing particles are the same as for PM_{2.5}.

2.1.4.2 Non-Criteria Air Pollutants

Toxic Air Contaminants (TACs). A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics “Hot Spots” Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires stationary sources to report the types and quantities of certain substances routinely released into the air. The goals of the Air Toxics “Hot Spots” Act are to collect emission data, to identify facilities having localized impacts, to ascertain health risks, to notify nearby residents of significant risks, and to reduce those significant risks to acceptable levels.

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

Diesel Particulate Matter (DPM). DPM is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of PM_{2.5} (CARB 2024g). DPM is typically composed of carbon particles (“soot,” also called black carbon) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2024g). CARB classified “particulate emissions from diesel-fueled engines” (i.e., DPM) as a TAC in August 1998 (17 CCR 93000). DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, California Air Resources Board (CARB) adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM_{2.5}, DPM also contributes to the same non-cancer health effects as PM_{2.5} exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2023f). Those most vulnerable to non-cancer health effects are children whose lungs are still developing and the elderly who often have chronic health problems.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person’s reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting and headache). The ability to detect odors varies considerably among the population and overall is quite subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An

unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. In a phenomenon known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Valley Fever. *Coccidioidomycosis*, more commonly known as “Valley Fever,” is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States.

San Diego County (County) is not considered a highly endemic region for Valley Fever, as the latest report from the County of San Diego Health and Human Services Agency Public Health Services indicated the County has 13.5 cases per 100,000 people (County of San Diego 2023). In the zip code area of the project site (92056), the case rate is reported as 3.7 cases per 100,000 people (County of San Diego 2021). In contrast, in 2021 the statewide annual incident rate was 20.1 per 100,000 people. The California counties considered highly endemic for Valley Fever include Kern (306.2 per 100,000), Kings (108.3 per 100,000), Tulare (65.8 per 100,000), San Luis Obispo (61.0 per 100,000), Fresno (39.8 per 100,000), Merced (28.3 per 100,000), and Monterey (27.0 per 100,000), which accounted for 52.1% of the reported cases in 2021 (CDPH 2021).

2.2 Regulatory Setting

2.2.1 Federal

2.2.1.1 Criteria Pollutants

The federal Clean Air Act (CAA), passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The EPA is responsible for implementing most aspects of the CAA, including the setting of National Ambient Air Quality Standards (NAAQS) for major air pollutants, hazardous air pollutant (HAP) standards, approval of state attainment plans, motor vehicle emission standards, stationary source emission standards and permits, acid rain control measures, stratospheric O₃ protection, and enforcement provisions.

NAAQS are established by the EPA for criteria pollutants under the CAA, which are O₃, CO, NO₂, SO₂, PM₁₀, PM_{2.5}, and lead. The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The CAA requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan (SIP) that demonstrates how those areas will attain the standards within mandated time frames.

2.2.1.2 Hazardous Air Pollutants

The 1977 CAA Amendments required the EPA to identify national emission standards for hazardous air pollutants to protect the public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA Amendments, which expanded the control program for HAPs, 189 substances and chemical families were identified as HAPs.

2.2.2 State

2.2.2.1 Criteria Pollutants

The California Clean Air Act was adopted in 1988 and establishes the state's air quality goals, planning mechanisms, regulatory strategies, and standards of progress. Under the California Clean Air Act, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB is responsible for ensuring implementation of the California Clean Air Act, responding to the federal CAA, and regulating emissions from motor vehicles and consumer products. Pursuant to the authority granted to it, CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS.

The NAAQS and CAAQS are presented in Table 2.

Table 2. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
O ₃	1 hour	0.09 ppm (180 µg/m ³)	—	Same as primary standard ^f
	8 hours	0.070 ppm (137 µg/m ³)	0.070 ppm (137 µg/m ³) ^f	
NO ₂ ^g	1 hour	0.18 ppm (339 µg/m ³)	0.100 ppm (188 µg/m ³)	Same as primary standard
	Annual arithmetic mean	0.030 ppm (57 µg/m ³)	0.053 ppm (100 µg/m ³)	
CO	1 hour	20 ppm (23 mg/m ³)	35 ppm (40 mg/m ³)	None
	8 hours	9.0 ppm (10 mg/m ³)	9 ppm (10 mg/m ³)	
SO ₂ ^h	1 hour	0.25 ppm (655 µg/m ³)	0.075 ppm (196 µg/m ³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m ³)
	24 hours	0.04 ppm (105 µg/m ³)	0.14 ppm (for certain areas) ^g	—
	Annual	—	0.030 ppm (for certain areas) ^g	—
PM ₁₀ ⁱ	24 hours	50 µg/m ³	150 µg/m ³	Same as primary standard
	Annual arithmetic mean	20 µg/m ³	—	
PM _{2.5} ⁱ	24 hours	—	35 µg/m ³	Same as primary standard
	Annual arithmetic mean	12 µg/m ³	9.0 µg/m ³	15.0 µg/m ³
Lead ^{j, k}	30-day average	1.5 µg/m ³	—	—
	Calendar quarter	—	1.5 µg/m ³ (for certain areas) ^k	—

Table 2. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
	Rolling 3-month average	—	0.15 µg/m ³	Same as primary standard
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m ³)	—	—
Vinyl chloride ^f	24 hours	0.01 ppm (26 µg/m ³)	—	—
Sulfates	24- hours	25 µg/m ³	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016.

Notes: O₃ = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; NO₂ = nitrogen dioxide; CO = carbon monoxide; mg/m³= milligrams per cubic meter; SO₂ = sulfur dioxide; PM₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns.

^a California standards for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, suspended particulate matter (PM₁₀, PM_{2.5}), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

^b National standards (other than O₃, NO₂, SO₂, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O₃ standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For PM_{2.5}, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

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

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

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

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

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

^h On June 2, 2010, a new 1-hour SO₂ standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

ⁱ On February 7, 2024, the national annual PM_{2.5} primary standard was lowered from 12.0 mg/m³ to 9.0 mg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

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

^k The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in

areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Ambient Air Quality Monitoring Data

SDAPCD operates a network of ambient air monitoring stations throughout the County, which measure ambient concentrations of pollutants and determine whether the ambient air quality meets the CAAQS and the NAAQS. Representative ambient concentrations of pollutants from 2020 through 2022 are presented in Table 3. The Camp Pendleton monitoring station is the closest monitoring station to the project site for concentrations for O₃ and NO₂. The San Diego-Rancho Carmel Drive monitoring station is the closest station with monitoring data for the selected years for CO and PM_{2.5}. Because the SDABP is in attainment for CO, ambient CO concentrations are only monitored at two locations in the SDAB. The closest monitoring station for PM₁₀ and SO₂ is the El Cajon monitoring station. Notably, the monitoring stations for all pollutants have been selected because they meet the necessary monitoring criteria according to the Code of Federal Regulations and are representative of the SDAB.

Table 3. Local Ambient Air Quality Data

Averaging Time	Unit	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
				2020	2021	2022	2020	2021	2022
Ozone (O ₃) (Camp Pendleton)									
Maximum 1-hour concentration	ppm	California	0.09	0.094	0.074	0.076	0	0	0
Maximum 8-hour concentration	ppm	California	0.070	0.074	0.059	0.067	3	0	0
		National	0.070	0.074	0.059	0.067	3	0	0
Nitrogen Dioxide (NO ₂) (Camp Pendleton)									
Maximum 1-hour concentration	ppm	California	0.18	0.058	0.059	0.050	0	0	0
		National	0.100	0.058	0.059	0.050	0	0	0
Annual concentration	ppm	California	0.030	0.006	ND	0.005	—	—	—
		National	0.053	0.006	0.006	0.005	—	—	—
Carbon Monoxide (CO) (San Diego – Rancho Carmel Drive)									
Maximum 1-hour concentration	ppm	California	20	ND	ND	ND	ND	ND	ND
		National	35	3.3	3.0	2.2	0	0	0
Maximum 8-hour concentration	ppm	California	9.0	ND	ND	ND	ND	ND	ND
		National	9	1.7	1.8	1.2	0	0	0
Sulfur Dioxide (SO ₂) (El Cajon)									
Maximum 1-hour concentration	ppm	National	0.075	0.0017	0.0016	0.0008	0	0	0

Table 3. Local Ambient Air Quality Data

Averaging Time	Unit	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
				2020	2021	2022	2020	2021	2022
Maximum 24-hour concentration	ppm	National	0.14	0.0004	0.0003	0.0003	0	0	0
Annual concentration	ppm	National	0.030	0.00009	0.00006	0.00006	—	—	—
Coarse Particulate Matter (PM₁₀) (El Cajon)^a									
Maximum 24-hour concentration	µg/m ³	California	50	ND	ND	ND	ND (ND)	ND (ND)	ND (ND)
		National	150	55.0	40.0	44.0	0.0 (0)	0.0 (0)	0.0 (0)
Annual concentration	µg/m ³	California	20	ND	ND	ND	—	—	—
Fine Particulate Matter (PM_{2.5}) (San Diego – Rancho Carmel Drive)^a									
Maximum 24-hour concentration	µg/m ³	National	35	40.2	23.5	14.9	3.0 (1)	0.0 (0)	0.0 (0)
Annual concentration	µg/m ³	California	12	ND	ND	ND	—	—	—
		National	12.0	9.2	8.5	7.6	—	—	—

Sources: CARB 2024h; EPA 2024b. Monitoring station represented for each source noted in parentheses following the pollutant monitored.

Notes: ppm = parts per million by volume; — = not available; µg/m³ = micrograms per cubic meter; ND = insufficient data available to determine the value.

The Camp Pendleton monitoring station is located at 21441-W B Street, Oceanside, California.

The El Cajon monitoring station is located at 10537 Floyd Smith Drive, El Cajon, California.

The San Diego – Rancho Carmel Drive monitoring station is located at 11403 Rancho Carmel Drive, San Diego, California.

Data taken from CARB and EPA represent the highest concentrations experienced over a given year.

Exceedances of national and California standards are only shown for O₃ and particulate matter. Daily exceedances for particulate matter are estimated days because PM₁₀ and PM_{2.5} are not monitored daily. All other criteria pollutants did not exceed national or California standards during the years shown. There is no national standard for 1-hour O₃, annual PM₁₀, or 24-hour SO₂, nor is there a California 24-hour standard for PM_{2.5}.

^a Measurements of PM₁₀ and PM_{2.5} are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.

SDAB Attainment Designation

Pursuant to the 1990 CAA Amendments, EPA classifies air basins (or portions thereof) as “attainment” or “nonattainment” for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as “attainment” for that pollutant. If an area exceeds the standard, the area is classified as “nonattainment” for that pollutant. As previously discussed, these standards are set by EPA or CARB 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. If there is not

enough data available to determine whether the standard is exceeded in an area, the area is designated as “unclassified” or “unclassifiable.”

The designation of “unclassifiable/attainment” means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are redesignated as maintenance areas and must have approved maintenance plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as “attainment” or “nonattainment,” but based on the CAAQS rather than the NAAQS.

Table 4 summarizes SDAB’s federal and state attainment designations for each of the criteria pollutants.

Table 4. SDAB Attainment Designation

Pollutant	Federal Designation	State Designation
O ₃ (8-hour)	Nonattainment	Nonattainment
O ₃ (1-hour)	Attainment ^a	Nonattainment
CO	Attainment	Attainment
PM ₁₀	Unclassifiable ^b	Nonattainment
PM _{2.5}	Attainment	Nonattainment ^c
NO ₂	Attainment	Attainment
SO ₂	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen sulfide	(No federal standard)	Unclassified
Visibility-reducing particles	(No federal standard)	Unclassified
Vinyl chloride	(No federal standard)	No designation

Sources: SDAPCD 2024, CARB 2024i.

Definitions: attainment = meets the standards; nonattainment = does not meet the standards; unclassified or unclassifiable = insufficient data to classify

Notes: SDAB = San Diego; O₃ = ozone; CO = carbon monoxide; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; NO₂ = nitrogen dioxide; SO₂ = sulfur dioxide.

- ^a The federal 1-hour standard of 0.12 parts per million (ppm) was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in SIPs.
- ^b At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.
- ^c CARB has not reclassified the region to attainment yet due to (1) incomplete data, and (2) the use of non-California Approved Samplers (CAS). While data collected does meet the requirements for designation of attainment with federal PM_{2.5} standards, the data completeness requirements for state PM_{2.5} standards substantially exceed federal requirements and mandates, and have historically not been feasible for most air districts to adhere to given local resources. APCD has begun replacing most regional filter-based PM_{2.5} monitors as they reach the end of their useful life with continuous PM_{2.5} air monitors to ensure collected data meets stringent completeness requirements in the future. APCD anticipates these new monitors will be approved as "CAS" monitors once CARB review the list of approved monitors, which has not been updated since 2013.

2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California TAC list identifies more than 200 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. In 1987, the Legislature enacted the Air Toxics “Hot Spots” Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere.

AB 2588 law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years. TAC emissions from individual facilities are quantified and prioritized. “High-priority” facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000). Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment Program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Health and Safety Code Section 41700

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

2.2.3 Local

2.2.3.1 San Diego Air Pollution Control District

While CARB is responsible for the regulation of mobile emission sources within the state, local air quality management districts and air pollution control districts are responsible for enforcing standards and regulating stationary sources. The project site is located within the SDAB, which is under the jurisdiction of the SDAPCD, and is therefore, subject to the guidelines and regulations of SDAPCD. Federal and State attainment plans adopted by the SDAPCD are summarized below.

Federal Attainment Plans

SDAPCD has prepared the 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County (2020 Attainment Plan) that demonstrates how the region will further reduce air pollutant emissions to attain the current NAAQS for ozone. The 2020 Attainment Plan was approved by the SDAPCD on October 14, 2020. On November 19, 2020, CARB adopted the 2020 Attainment Plan for attaining the Federal 8-hour 75 ppb and 70 ppb Ozone standards and projects attainment for the standards by 2026 and 2032, respectively (SDAPCD 2020a). The 2020 Attainment Plan will be submitted to the EPA as a revision to the California State Implementation Plan (SIP) for attaining the ozone NAAQS.

In December 2016, the SDAPCD adopted an update to the Eight-Hour Ozone Attainment Plan for San Diego County (2008 O₃ NAAQS). The 2016 Final Eight-Hour Ozone Attainment Plan for San Diego County indicates that local controls and state programs would allow the region to reach attainment of the federal 8-hour O₃ standard (1997 O₃ NAAQS) by 2018 (SDAPCD 2016a). In this plan, SDAPCD relies on the Regional Air Quality Strategy (RAQS) to demonstrate how the region will comply with the federal O₃ standard. The RAQS details how the region will manage and reduce O₃ precursors (NO_x and VOCs) by identifying measures and regulations intended to reduce these pollutants. The control measures identified in the RAQS generally focus on stationary sources; however, the emissions inventories and projections in the RAQS address all potential sources, including those under the authority of CARB and EPA. Incentive programs for reduction of emissions from heavy-duty diesel vehicles, off-road equipment, and school buses are also established in the RAQS.

Currently, the County is designated as moderate nonattainment for the 2008 O₃ NAAQS and maintenance for the 1997 O₃ NAAQS. As documented in the 2016 Final Eight-Hour Ozone Attainment Plan for San Diego County, the County has a likely chance of obtaining attainment due to the transition to low emission cars, stricter new source review rules, and continuing the requirement of general conformity for military growth and the San Diego International Airport. SDAPCD will also continue emission control measures including ongoing implementation of existing regulations in ozone precursor reduction to stationary and area-wide sources, subsequent inspections of facilities and sources, and the adoption of laws requiring Best Available Retrofit Control Technology for control of emissions (SDAPCD 2016a).

State Attainment Plans

SDAPCD and the San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The RAQS for the SDAB was initially adopted in 1991 and is updated every 3 years. The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for O₃. The RAQS relies on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in the County and the cities in the County, to forecast future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. The CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the County and the cities in the County as part of the development of their general plans (SANDAG 2021).

On March 9, 2023, SDAPCD adopted the 2022 Regional Air Quality Strategy (RAQS). The RAQS plan demonstrates how the San Diego region will further reduce air pollution emissions to meet state health-based standards for ground-level O₃. The 2022 RAQS guides the SDAPCD in deploying tools, strategies, and resources to continue reducing pollutants that are precursors to ground-level O₃, including NO_x and VOC. The 2022 RAQS emphasizes O₃ control measures but also identifies complementary measures and strategies that can reduce emissions of Greenhouse Gases (GHGs) and PM. It also includes new analyses exploring O₃ and its relationship to public health, mobile sources, under-resourced communities, and GHGs and climate change (SANDAG 2023). Further, the 2022 RAQS identifies strategies to expand SDAPCD regional partnerships, identify more opportunities to engage the public and communities of concern, and integrate environmental justice and equity across all proposed measures and strategies.

Regarding particulate matter emissions reduction efforts, in December 2005, SDAPCD prepared a report titled "Measures to Reduce Particulate Matter in San Diego County" to address implementation of Senate Bill (SB) 656 in San Diego County (SB 656 required additional controls to reduce ambient concentrations of PM₁₀ and PM_{2.5})

(SDAPCD 2005). In the report, SDAPCD evaluated the implementation of source-control measures that would reduce particulate matter emissions associated with residential wood combustion; various construction activities including earthmoving, demolition, and grading; bulk material storage and handling; carryout and trackout removal and cleanup methods; inactive disturbed land; disturbed open areas; unpaved parking lots/staging areas; unpaved roads; and windblown dust (SDAPCD 2005).

SDAPCD Rules and Regulations

As stated previously, SDAPCD is responsible for planning, implementing, and enforcing federal and state ambient standards in the SDAB. The following rules and regulations apply to all sources in the jurisdiction of SDAPCD:

- **SDAPCD Regulation IV: Prohibitions; Rule 50: Visible Emissions.** Prohibits any activity causing air contaminant emissions darker than 20% opacity for more than an aggregate of 3 minutes in any consecutive 60-minute time period. In addition, Rule 50 prohibits any diesel pile-driving hammer activity causing air contaminant emissions for a period or periods aggregating more than 4 minutes during the driving of a single pile (SDAPCD 1997).
- **SDAPCD Regulation IV: Prohibitions; Rule 51: Nuisance.** Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property (SDAPCD 1976).
- **SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust.** Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site (SDAPCD 2009).
- **SDAPCD Regulation IV: Prohibitions; Rule 67.0.1: Architectural Coatings.** Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories (SDAPCD 2015a).
- **SDAPCD Regulation IV: Prohibitions; Rule 67.7: Cutback and Emulsified Asphalts.** This rule prohibits manufacturers, distributors, and end users of cutback and emulsified asphalt materials for the paving, construction or maintenance of parking lots, driveways, streets and highways from applying asphalt material or road oils which contain more than 0.5 percent by volume VOC which evaporate at 260° C (500° F) or less (SDAPCD 1979).

2.2.3.2 San Diego Association of Governments

SANDAG is the regional planning agency for the County and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. SANDAG serves as the federally designated metropolitan planning organization for the County. With respect to air quality planning and other regional issues, SANDAG has prepared San Diego Forward: The Regional Plan (Regional Plan) for the San Diego region (SANDAG 2015). The Regional Plan combines the big-picture vision for how the region will grow over the next 35 years with an implementation program to help make that vision a reality. The Regional Plan, including its Sustainable Communities Strategy (SCS), is built on an integrated set of public policies, strategies, and investments to maintain, manage, and improve the transportation system so that it meets the diverse needs of the San Diego region through 2050. The Regional Plan was updated in 2021, which was the result of years of planning, data

analysis, and community engagement to reimagine the San Diego region with a transformative transportation system, a sustainable pattern of growth and development, and innovative demand and management strategies (SANDAG 2021). The 2021 Regional Plan includes a SCS, which describes coordinated transportation and land use planning that exceeds the state's target for reducing per capita GHG emissions set by CARB. The state-mandated target is a 19% reduction—compared with 2005—in per capita GHG emissions from cars and light-duty trucks by 2035. The 2021 Regional Plan achieves a 20% reduction by then. The 2021 Regional Plan also puts forth a forecasted development pattern that is driven by regional goals for sustainability, mobility, housing affordability, and economic prosperity.

2.2.3.3 City of Oceanside General Plan

City of Oceanside General Plan

The City of Oceanside's General Plan includes various policies related to improving air quality (both directly and indirectly) in the Land Use Element (2002), Circulation Element (2012), and Energy Climate Action Element (2019). Policies applicable to the Project include, but are not limited to, the following:

Land Use Element

Land Use Compatibility

Policy C. The use of land shall not subject people to potential sources of objectionable noise, light, odors, and other emissions nor to exposure of toxic, radioactive, or other dangerous materials.

Bicycle Facilities

Policy A. Development shall provide Class II Bikeways (Bike Lanes) on all secondary, major, and prime arterials.

Policy D. The use of land shall integrate the Bicycle Circulation System with auto, pedestrian, and transit systems:

- Development shall provide short-term bicycle parking and long-term bicycle storage facilities such as bicycle racks, pedestal posts, and rental bicycle lockers.
- Development shall provide safe and convenient bicycle access to high activity land uses, such as schools, parks, shopping, employment, and entertainment centers.

Pedestrian

Policy A. The construction of five (5) foot wide sidewalks adjacent to the curb shall be required in all new developments and street improvements.

Transit System

Policy A. The City shall coordinate and encourage the existing bus system to serve newly developed areas.

Circulation Element

Pedestrian Facilities

Goal 5. Support walking as a primary means of transportation that in turn supports transit and bike options. A positive walking environment is essential for supporting smart growth, mixed land uses, transit-oriented development, traffic calming and reducing traffic congestion and greenhouse gas emissions.

Transportation Demand Management

Policy 4.1. The City shall encourage the reduction of vehicle miles traveled, reduction of the total number of daily and peak hour vehicle trips, and provide better utilization of the circulation system through development and implementation of TDM [transportation demand management] strategies. These may include, but not limited to, implementation of peak hour trip reduction, encourage staggered work hours, telework programs, increased development of employment centers where transit usage is highly viable, encouragement of ridesharing options in the public and private sector, provision for park-and-ride facilities adjacent to the regional transportation system, and provision for transit subsidies.

Energy Climate Action Element

Renewable Energy and Energy Efficiency

Policy ECAE-1c-1. Explore possible incentives for LEED (Leadership in Energy and Environmental Design)-certified and zero net energy development, including permit streamlining and fee reductions or waivers.

Policy ECAE-1c-7. As an alternative to natural gas, encourage building electrification, including electric heat pump appliances, space heaters, and water heaters.

Smart Growth and Multimodal Transportation

Policy ECAE-2a-1. In areas served by transit, promote land use intensities that increase transit ridership and, in turn, the quality and frequency of transit service.

Policy ECAE-2a-2. In the City's commercial corridors, promote a mix of land uses that contributes to a sense of place, creates synergies between local businesses, and affords residents the opportunity to live, work, and play within a walkable radius.

Policy ECAE-2a-4. Streamline the review and approval process for transit-oriented development within the City's designated Smart Growth Opportunity Areas.

Policy ECAE-2a-8. Prioritize capital improvements in areas suitable for mixed-use development.

2.3 Significance Criteria and Methodology

2.3.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.), which provides guidance that a project would have a significant environmental impact if it would:

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. 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.
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

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

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or pollution control district may be relied upon to determine whether the project would have a significant impact on air quality. As part of its air quality permitting process, the SDAPCD has established thresholds in Rule 20.2 requiring the preparation of Air Quality Impact Assessments for permitted stationary sources. The SDAPCD sets forth quantitative emission thresholds below which a stationary source would not have a significant impact on ambient air quality. Project-related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 5 are exceeded.

For CEQA purposes, these screening criteria can be used as numeric methods to demonstrate that the Project's total emissions would or would not result in a significant impact to air quality.

Table 5. SDAPCD Air Quality Significance Thresholds

Construction Emissions	
Pollutant	Total Emissions (Pounds per Day)
Coarse particulate matter (PM ₁₀)	100
Fine particulate matter (PM _{2.5})	55
Oxides of nitrogen (NO _x)	250
Sulfur oxides (SO _x)	250
Carbon monoxide (CO)	550
Volatile organic compounds (VOCs)	75 ^a

Table 5. SDAPCD Air Quality Significance Thresholds

Operational Emissions			
Pollutant	Total Emissions		
	Pounds per Hour	Pounds per Day	Tons per Year
Coarse particulate matter (PM ₁₀)	—	100	15
Fine particulate matter (PM _{2.5})	—	55	10
Oxides of nitrogen (NO _x)	25	250	40
Sulfur oxides (SO _x)	25	250	40
Carbon monoxide (CO)	100	550	100
Lead and lead compounds	—	3.2	0.6
Volatile organic compounds (VOCs)	—	75 ^a	13.7

Source: SDAPCD 2016b.

Notes: SDAPCD = San Diego Air Pollution Control District.

^a VOC threshold based on the threshold of significance for VOCs from the South Coast Air Quality Management District (SCAQMD) for the Coachella Valley as stated in the San Diego County Guidelines for Determining Significance.

The thresholds listed in Table 5 represent screening-level thresholds that can be used to evaluate whether Project-related emissions would cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. In the event that emissions exceed these thresholds, modeling would be required to demonstrate that the Project's total air quality impacts result in ground-level concentrations that are below the CAAQS and NAAQS, including appropriate background levels. For non-attainment pollutants, if emissions exceed the thresholds shown in Table 5, the Project could have the potential to result in a cumulatively considerable net increase in these pollutants and thus could have a significant impact on the ambient air quality.

SDAPCD Rule 51 (Public Nuisance) prohibits emission of any material that causes nuisance to a considerable number of persons or endangers the comfort, health, or safety of any person (SDAPCD 1976). A project that proposes a use that would produce objectionable odors would be deemed to have a significant odor impact if it would affect a considerable number of off-site receptors.

2.3.2 Approach and Methodology

The California Emissions Estimator Model (CalEEMod) Version 2022.1 was used to estimate emissions from construction and operation of the project (CAPCOA 2022). CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant and GHG emissions associated with construction activities and operation of 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 its size, construction schedule, and anticipated use of construction equipment, were based on information provided by the project applicant and default model assumptions if project specifics were unavailable. Table 6 provides a summary of the land use inputs included in the CalEEMod modeling for construction and operation. The assumptions presented herein are conservative as they are based on the maximum development of 282 multi-family residential units, and it is possible that only 260 units would be developed. Additionally, the project used a City Park as a surrogate for a pedestrian path with landscaping, which would also present conservative results in terms of water demand.

Table 6. CalEEMod Land Use Development Summary for the Proposed Project

Phase	Project Component	CalEEMod Land Use Type	Land Use Amount (Size)	Land Use Size Metric	Building Square Footage	Landscaping Square Footage	Land Use Acreage
1	4-Story Residential, Building 1	Residential – Apartments Mid Rise	172	du	168,500	55,574	1.28
	Leasing/ Clubhouse/ Fitness	Recreational – Healthclub	6.86	ksf	6,860	—	0
	Public Park	Recreational – City Park	0.16	ac	0	—	0.16
	Podium Parking	Parking – Unenclosed Parking Structure	141	sp	62,000	—	0
	Surface Parking	Parking – Parking Lot	194	sp	0	—	2
	Common open space, On-site pavement and hardscape surfaces, walkways, etc.	Parking – Other Non-Asphalt Surfaces	0.62	ac	0	—	0.62
	Additional on-site impact area	Parking – Other Non-Asphalt Surfaces	7.1	0	0	—	7.1
	Off-Site Improvements – Off-Site Road and Bicycle/Pedestrian path	Parking – Other Asphalt Surfaces	0.77	ac	0	—	0.77
2	4-Story Residential, Building 2	Residential – Apartments Mid Rise	110	du	90,500	9,648	0.22
	Leasing/ Clubhouse/ Fitness	Recreational – Healthclub	3.2	ksf	3,200	—	0
	Common open space	Parking – Other Non-Asphalt Surfaces	0.26	ac	0	—	0.26

Notes: ac = acre, du = dwelling unit, ksf = 1,000 square feet, sp = spaces

2.3.2.1 Construction Mass Emissions

Emissions from the construction phase of project components were estimated using CalEEMod. As shown in Table 7, per preliminary project details, it is assumed that construction of the project would begin in January 2026 and would be completed by February 2027. The construction schedule used in the analysis represents a “worst-case” analysis scenario since emission factors for construction equipment decrease as the analysis year increases due to improvements in technology and more stringent regulatory requirements. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required pursuant to CEQA guidelines.

Table 7. Project Construction Schedule

Phase	Construction Task	Start Date	End Date	Workdays
1	Site Preparation	1/5/2026	1/16/2026	10
	Grading	1/19/2026	2/13/2026	20
	Building Construction	2/16/2026	12/18/2026	220
	Paving	12/21/2026	1/15/2027	20
	Architectural Coating	1/18/2027	2/12/2027	20
1 – Off-Site Improvements	Linear, Grubbing, and Land Clearing	1/5/2026	2/10/2026	26
	Linear, Grading, and Excavation	2/11/2026	7/27/2026	119
	Linear, Drainage, Utilities, and Sub-Grade	7/28/2026	11/15/2026	79
	Linear, Paving	11/16/2026	1/11/2027	40
2	Grading	2/16/2027	2/19/2027	4
	Building Construction	2/22/2027	10/29/2027	180
	Paving	11/1/2027	11/12/2027	10
	Architectural Coating	11/15/2027	12/3/2027	15

Table 8 provides the construction equipment mix and vehicle trips assumed for estimating project-generated construction emissions.

Table 8. Construction Scenario Assumptions

Construction Phase (Duration)	One-Way Vehicle Trips			Equipment		
	Workers	Vendors	Haul Trucks	Equipment Type	Quantity	Daily Usage Hours
Site Preparation (Phase 1)	18	4	0	Rubber Tired Dozers	3	8
				Tractors/Loaders/Backhoes	4	8
Grading (Phase 1)	18	6	188	Excavators	2	8
				Graders	1	8
				Rubber Tired Dozers	1	8

Table 8. Construction Scenario Assumptions

Construction Phase (Duration)	One-Way Vehicle Trips			Equipment		
	Workers	Vendors	Haul Trucks	Equipment Type	Quantity	Daily Usage Hours
Building Construction (Phase 1)	140	24	0	Tractors/Loaders/Backhoes	2	8
				Bore/Drill Rigs	1	8
				Scrapers	1	8
				Cranes	1	7
				Forklifts	3	8
				Generator Sets ¹	1	8
Paving (Phase 1)	16	4	0	Tractors/Loaders/Backhoes	3	7
				Welders	1	8
				Pavers	2	8
Architectural Coating (Phase 1)	28	4	0	Paving Equipment	2	8
				Rollers	2	8
				Air Compressors ¹	1	6
Off-Site Improvements (Linear, Grubbing, Land Clearing)	6	2	0	Crawler Tractors	1	8
				Excavators	1	8
Off-Site Improvements (Linear, Grading and Excavation)	18	2	0	Crawler Tractors	1	8
				Excavators	1	8
				Graders	1	8
				Rollers	1	8
				Rubber Tired Loaders	1	8
				Scrapers	1	8
				Tractors/Loaders/Backhoes	1	8
Off-Site Improvements (Linear, Drainage, Utilities ,and Sub-Grade)	26	2	0	Air Compressors ¹	1	8
				Generator Sets ¹	1	8
				Graders	1	8
				Plate Compactors	1	8
				Pumps	1	8
				Rough Terrain Forklifts	1	8
				Scrapers	1	8
				Tractors/Loaders/Backhoes	1	8
Off-Site Improvements	18	2	0	Pavers	1	8
				Paving Equipment	1	8

Table 8. Construction Scenario Assumptions

Construction Phase (Duration)	One-Way Vehicle Trips			Equipment		
	Workers	Vendors	Haul Trucks	Equipment Type	Quantity	Daily Usage Hours
(Linear, Paving)				Rollers	1	8
				Tractors/Loaders/Backhoes	1	8
Grading (Phase 2)	20	6	0	Excavators	2	8
				Graders	1	8
				Rubber Tired Dozers	1	8
				Scrapers	1	8
				Tractors/Loaders/Backhoes	2	8
Building Construction (Phase 2)	100	20	0	Cranes	1	7
				Forklifts	3	6
				Generator Sets ¹	1	8
				Tractors/Loaders/Backhoes	3	7
				Welders	1	8
Paving (Phase 2)	16	4	0	Pavers	2	8
				Paving Equipment	2	8
				Rollers	2	8
Architectural Coating (Phase 2)	20	4	0	Air Compressors ¹	1	6

Notes: See Appendix A for additional details.

¹ Assumed to be electric pursuant to PDF-AQ-3

For the analysis, it is generally assumed that heavy construction equipment would be operating at the site for a maximum of 8 hours per day, 5 days per week. In addition, the project incorporated the use of temporary electric power/electric generators and electric air compressors during the building construction and architectural coating phases, respectively.

Default values provided in CalEEMod were used to determine worker trips and vendor truck trips for each potential construction phase. The default CalEEMod trip distance for construction vehicles was utilized, which was a one-way distance of 11.97 miles for worker trips, 7.63 miles for vendor truck trips, and 20 miles for haul truck trips.

Implementation of the Project would generate criteria air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, architectural coatings, and asphalt pavement application. Based on project specific information, up to 30,000 cubic yards of material is expected to be imported during the grading phase. Entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM₁₀ and PM_{2.5} emissions. Construction of Project components would be subject to SDAPCD Rule 55 – Fugitive Dust Control. Compliance with Rule 55 would limit fugitive dust (PM₁₀ and PM_{2.5}) that may be generated during grading and construction activities. Standard construction practices that would be employed to reduce fugitive dust

emissions include watering of the active sites two times per day, depending on weather conditions as indicated by PDF-AQ-1.

Internal combustion engines used by construction equipment, vendor trucks (i.e., delivery trucks), haul trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM₁₀, and PM_{2.5}. The application of architectural coatings, such as exterior application/interior paint and other finishes, and application of asphalt pavement would also produce VOC emissions; however, the contractor is required to procure architectural coatings from a supplier in compliance with the requirements of SDAPCD Rule 67.0.1 for Architectural Coatings.

For additional details see Appendix A, Air Quality and Greenhouse Gas Emissions CalEEMod Output Files.

2.3.2.2 Construction Health Risk Analysis

A construction Health Risk Assessment (HRA) was performed to assess the impact of construction on sensitive receptors proximate to the project site and to on-site residents that may occupy the site while building construction is completed. This report includes an HRA associated with emissions from construction of the project based on the methodologies prescribed in the Office of Environmental Health Hazard Assessment (OEHHA) document, Air Toxics Hot Spots Program Risk Assessment Guidelines – Guidance Manual for Preparation of Health Risk Assessments (OEHHA Guidelines) (OEHHA 2015). To implement the OEHHA Guidelines based on proposed project information, the SDAPCD has developed a three-tiered approach where each successive tier is progressively more refined, with fewer conservative assumptions. The SDAPCD document, Supplemental Guidelines for Submission of Air Toxics “Hot Spots” Program Health Risk Assessments (SDAPCD 2022), provides guidance with which to perform HRAs within the SDAB.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SDAPCD recommends a carcinogenic (cancer) risk threshold of 10 in one million. Additionally, some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The SDAPCD recommends a Chronic Hazard Index significance threshold of one (project increment). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in this assessment.

The HRA for the project evaluated the risk to existing off-site residents from diesel emissions from exhaust from on-site construction equipment and diesel haul and vendor trucks. The HRA also evaluated the risk to potential on-site residents occupying the buildings while construction is completed.

The dispersion modeling of DPM was performed using the American Meteorological Society/EPA Regulatory Model (AERMOD), which is the model SDAPCD requires for atmospheric dispersion of emissions. AERMOD 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 2023a). For the Project, AERMOD was run with all sources emitting unit emissions (one gram per second) to obtain the “X/Q” values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength and is used as a way to simplify the representation of emissions from many sources. The X/Q values of ground-level concentrations were determined for construction emissions using

AERMOD and the maximum concentrations determined for the one-hour and period-averaging periods. Principal parameters of this modeling are presented in Table 9.

Table 9. AERMOD Principal Parameters - Construction

Parameter	Details
Meteorological Data	The latest three-year meteorological data (2019-2021) for the McClellan-Palomar Airport Station were obtained from SDAPCD as the recommended meteorological station and input to AERMOD.
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. Per the SDAPCD guidelines, the land use procedure from 4.4.1 of the OEHHA Guidance Manual indicated that urban dispersion was appropriate for the project site.
Terrain Characteristics	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate for the site. This accounts for complex terrain within 2 kilometers of the site. The National Elevation Dataset (NED) dataset with resolution of 1 arc-second was used. The AERMAP terrain preprocessor, which can process U.S. Geological Survey (USGS) Digital Elevation Model (DEM) data and data from the NED, is also used to generate the terrain elevations for the receptor locations. The AERMAP program generates an output file that contains the receptor pathway data for AERMOD.
Emission Sources and Release Parameters	Air dispersion modeling of DPM from construction equipment was conducted using emissions estimated using CalEEMod, assuming emissions would occur eight hours per day, five days per week. Vendor and hauling trips were modified to account only for emissions occurring within 1,320 ft of the project site (SJVAPCD 2018). The project area was modeled as a series of adjacent line-volume sources. The line of adjacent volume sources was assumed to have a release height of 5 meters, a plume height of 10 meters, and a plume width of 10 meters (SCAQMD 2008).
Receptors	The HRA evaluates the risk to existing off-site and future on-site sensitive receptors located in proximity to the project Site. For the off-site receptors, the construction scenario used a 2-kilometer by 2-kilometer Cartesian receptor grid with less than 50-meter spacing to establish the impact area and evaluate locations of maximum health risk impact. Discrete receptors were placed over residential receptors in closest proximity to the site. On-site receptors were placed at both buildings at ground-level and flagpole elevations (22 meters) to reflect potential impacts to upper-level residential floors.

Notes: AERMOD = American Meteorological Society/EPA Regulatory Model; SDAPCD = San Diego Air Pollution Control District; SCAQMD= South Coast Air Quality Management District; SJVAPCD = San Joaquin Valley Air Pollution Control District; DPM = diesel particulate matter; CalEEMod = California Emissions Estimator Model.
See Appendix B for additional information.

Dispersion model plot files from AERMOD were then imported into CARB's Hotspots Analysis and Reporting Program Version 2 (Version 21118) to determine health risk, which requires peak one-hour emission rates and annual emission rates for all pollutants for each modeling source. For the off-site residential health risk, the HRA assumes exposure would start in the third trimester of pregnancy for a duration of 23 months. For the on-site residential risk, the HRA assumes exposure would start in the third trimester of pregnancy for a duration of 10 months. A construction HRA CalEEMod run was performed to estimate on-site emissions of exhaust PM₁₀, which was used as

a surrogate for DPM.³ The predominant source of construction exhaust PM₁₀ is operation of off-road diesel construction equipment. However, it was conservatively assumed that emissions from heavy-duty haul and vendor trucks, which could be diesel- or gasoline-fueled, traveling 0.25 miles would occur on site to represent potential on-site travel and nearby local off-site travel. Total exhaust PM₁₀ emissions from CalEEMod were averaged over the project’s construction duration to estimate the annual and hourly exposure, which were estimated to be 162 pounds per year and 0.08 pounds per hour of DPM for off-site receptors and 65 pounds per year and 0.04 pounds per hour of DPM for on-site receptors.

2.3.2.3 Operation

Operation of the proposed Project would generate criteria air pollutant emissions from mobile, area, and energy sources, which are discussed below. Emissions from these sources were estimated based on CalEEMod default values for operations of the Project land uses. The project would be fully operational following the completion of construction, which would occur in 2028.

Mobile Sources (Motor Vehicles)

Following the completion of construction activities, the Project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources (vehicular traffic) as a result of the 282 additional residential units. The CalEEMod Version 2022 was used to estimate daily emissions from proposed vehicular sources in combination with trip rates provided by LOS Engineering, Inc. shown in Table 10. CalEEMod default data, including trip characteristics, variable start information, emissions factors, and trip distances, were used for the model inputs. Emission factors representing the vehicle mix and emissions for 2028 were used to estimate emissions associated with vehicular sources.

Table 10. Project Trip Generation

ITE 11th Edition Code and Land Use Description	# of Dwelling Units (du)	Weekday Daily Trip Rate/du (Total Trips)	Saturday Daily Trip Rate/du (Total Trips)	Sunday Daily Trip Rate/du (Total Trips)
ITE (221)	282	4.75 (1,340)	4.91 (1,385)	4.09 (1,153)

Source: LOS Engineering, Inc. 2024

Area

CalEEMod was used to estimate operational emissions from area sources, including emissions from hearths, consumer product use, architectural coatings, and landscape maintenance equipment. 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. Pursuant to PDF AQ-2, the project assumed the use of natural gas fireplaces instead of woodburning fireplaces and the CalEEMod default assumption of units that would include

³ Under California regulatory guidelines, DPM is used as a surrogate measure of carcinogen exposure for the mixture of chemicals that make up diesel exhaust as a whole. The California Environmental Protection Agency has concluded that “potential cancer risk from inhalation exposure to whole diesel exhaust will outweigh the multi-pathway cancer risk from the speciated components” (OEHHA 2003).

electric or no fireplaces. In addition, PDF-AQ-2 also prohibits the use of any woodburning devices, such as woodstoves.

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 2022). Consumer product VOC emissions are estimated in CalEEMod based on the floor area of nonresidential and residential buildings and on the default factor of pounds of VOC per building square foot per day. For the asphalt surface land uses, CalEEMod estimates VOC emissions associated with use of parking surface degreasers based on the square footage of parking surface area and pounds of VOC per square foot per day.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers used during building maintenance. CalEEMod calculates the VOC evaporative emissions from application of nonresidential and residential surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The CalEEMod default VOC emission factors were used for building interior, exterior, and parking area coatings. The model default reapplication rate of 10% of area per year was utilized.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated from landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per residential dwelling unit per day and grams per square foot of nonresidential building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days. For San Diego County, the average annual “summer” days are estimated to 365 days; however, operational days are assumed to be 180 days per year in CalEEMod (CAPCOA 2022).

Energy

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage (non-hearth). Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, because criteria pollutant emissions occur at the site of the power plant, which is typically off-site. Therefore, for the purposes of the air quality analysis, the energy source parameters focus on criteria air pollutants generated because of natural gas consumption within the built environment. Natural gas consumption is attributed to systems like heating, ventilation, and air conditioning and water heating. In CalEEMod 2022, the default energy use from nonresidential land uses is based on 2019 consumption estimates from the California Energy Commission’s (CEC’s) 2018-2030 Uncalibrated Commercial Sector Forecast (Commercial Forecast), and the energy use from residential land uses is based on the 2019 Residential Appliance Saturation Survey (RASS). The Commercial Forecast and RASS datasets derive energy intensities of different end use categories for different land use subtypes for electricity demand forecast zones (EDFZ) throughout the state. However, the energy use estimates are based on existing buildings and residences and are not representative of those constructed in compliance with energy efficiency requirements of the latest Title 24 Building Energy Efficiency Standards (e.g., the average residence surveyed in the RASS was constructed in 1974). Therefore, per Appendix D, Technical Source Documentation for Emissions Calculations, of the CalEEMod Version 2022.1 User Guide, “the default energy consumption estimates provided in CalEEMod based on the Commercial Forecast and RASS are very conservative, overestimating expected energy use compared to what would

be expected for new buildings subject to the latest Energy Code with more stringent energy efficiency measures” (CAPCOA 2022).

For additional details see Appendix A.

2.3.2.4 Rail Health Risk Analysis

CARB’s Air Quality and Land Use Handbook: A Community Health Perspective encourages consideration of the health impacts of siting sensitive receptors near sources of TAC emissions such as freeways, high volume roadways, distribution centers, rail yards, gasoline stations, etc., and prescribes recommended separation distances (CARB 2005). Although the Sprinter Station would not be considered a rail yard, the project would site new sensitive receptors near an existing source of TAC emissions in the form of DPM from the Burlington Northern Santa Fe (BNSF) freight travel and Sprinter rail travel along the rail line within 100 feet of the project site’s northern boundary.

Dispersion model plot files from AERMOD were then imported into CARB’s Hotspots Analysis and Reporting Program Version 2 (Version 21118) to determine health risk, which requires peak one-hour emission rates and annual emission rates for all pollutants for each modeling source. For the on-site residential health risk, the HRA assumes exposure would start in the third trimester of pregnancy for a duration of 30 years. Rail emissions were estimated using emission factors from the BAAQMD 2022 CEQA Guidance (BAAQMD 2023) and the BNSF San Diego Rail Yard Report (ENVIRON 2008) to estimate emissions of exhaust PM₁₀, which was used as a surrogate for DPM (Table 11). The annual and hourly exposure were estimated to be 87 pounds per year and 0.01 pounds per hour of DPM for on-site receptors.

Table 11. AERMOD Principal Parameters - Rail

Parameter	Details
Meteorological Data	The latest 3-year meteorological data (2019–2021) for the McClellan-Palomar Airport Station were obtained from SDAPCD as the recommended meteorological station and input to AERMOD.
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. Per the SDAPCD guidelines, the land use procedure from 4.4.1 of the OEHHA Guidance Manual indicated that urban dispersion was appropriate for the project site.
Terrain Characteristics	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate for the site. This accounts for complex terrain within 2 kilometers of the site. The National Elevation Dataset (NED) dataset with resolution of 1 arc-second was used. The AERMAP terrain preprocessor, which can process U.S. Geological Survey (USGS) Digital Elevation Model (DEM) data and data from the NED, is also used to generate the terrain elevations for the receptor locations. The AERMAP program generates an output file that contains the receptor pathway data for AERMOD.
Emission Sources and Release Parameters	The following modeling parameters for emissions sources were incorporated into AERMOD. These parameters were obtained from information published by regulatory agencies and represent the best available information at the time of this writing. Train travel was modeled as lines of adjacent volume sources along the anticipated rail lines with a release height of 4.76 meters, a plume height of 9.52 meters, a plume width of 11 meters (Environ 2008, BAAQMD 2022, EPA 2021).

Table 11. AERMOD Principal Parameters - Rail

Parameter	Details
	Train idling for Sprinter was modeled as point sources with a stack height of 4.76 meters, inside stack diameter of 0.56 meters, gas exhaust temperature of 385.45 degrees Kelvin, and gas exhaust velocity of 4.83 meters per second (Environ 2008). The idling time for each train was assumed to be 5 minutes. BNSF train idling was not considered since the freight line does not have a stop in the modeled area.
Receptors	Discrete receptors were placed at both buildings with flagpole heights at 0 meters, 10 meters, and 20 meters to account for potential diesel exposure at different building elevations.

Sources: BAAQMD 2022, 2023; Environ 2008; EPA 2021; SCAQMD 2008.

Notes: AERMOD = American Meteorological Society/EPA Regulatory Model; SDAPCD = San Diego Air Pollution Control District; DPM = diesel particulate matter.

See Appendix B for additional information.

2.4 Impact Analysis

2.4.1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

2.4.1.1 Analysis

As stated in Section 2.2.3, Local, SDAPCD and SANDAG are responsible for developing and implementing the clean air plans for attainment and maintenance of the NAAQS and CAAQS in the SDAB; specifically, the SIP and RAQS.⁴ The federal O₃ maintenance plan, which is part of the SIP, was adopted in 2016. The SIP includes a demonstration that current strategies and tactics will maintain acceptable air quality in the SDAB based on the NAAQS. The RAQS was initially adopted in 1991 and is updated every 3 years (most recently in 2022). The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for O₃. The SIP and RAQS rely on information from CARB and SANDAG, including mobile and area source emissions, as well as information regarding projected growth in San Diego County and the cities in the County, to project future emissions and then determine from that the strategies necessary for the reduction of emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by San Diego County and the cities in the County as part of the development of their general plans.

A project proposing development that is consistent with the growth anticipated in the local plan and SANDAG's growth projections, that project would not conflict with or obstruct implementation of the SIP and RAQS.

The project site has a General Plan designation of Medium Density Residential (MDA-R) that authorizes a maximum density of 9.9 dwelling units per acre. As described further below, the proposed project is not requesting an increase in density beyond that allowed by the General Plan.

The State of California's Density Bonus Law (Government Code Section 65915-65918) was established to promote the construction of affordable housing units and allows projects to exceed the maximum designated density and to

⁴ For the purpose of this discussion, the relevant federal air quality plan is the O₃ maintenance plan (SDAPCD 2016b). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

use development standard waivers, reductions or incentives, and concessions in exchange for providing affordable housing units in compliance with all current density bonus regulations. The City implements these mandatory state requirements. Density Bonus law requires the City to determine the allowed number of dwelling units based on the greater of the density authorized by the General Plan or the zoning. Thus, the density for the project site is determined based on the General Plan's 9.9 dwelling units per acre. Dwelling unit distribution and density bonus calculations for the proposed project are outlined below.

Under the Density Bonus Law, where a density range is provided, the base number of units permitted is determined by multiplying the developable acreage, which is 34.5 acres (43.5 acre site – 1.98 acres of wetland/riparian – 7.01 acres of steep slope (slopes greater than 40% with more than a 25-foot change in elevation) = 34.5), by the maximum density for the specific zoning range and land use element of the general plan applicable to the project (9.9 units per acre). Using this methodology, the base number of units allowed at the project site would be 341.8 (rounded up to 342 units as base allowable). Therefore, no density bonus to increase the allowable number of units is being requested as the project would construct a total of either 260 units (with Option A for building No. 2) or 282 units (with Option B for building No. 2).

The proposed 100% affordable dwelling unit project satisfies the City of Oceanside Inclusionary Housing Ordinance requirements and complies with the provisions of Density Bonus Law regarding affordable housing.

The most recent Regional Housing Needs Assessment (RHNA) from SANDAG stated that Oceanside needs to build 5,443 units from 2021 through 2029 (SANDAG 2020). The year 2022 marked the second year of the current RHNA production period. Oceanside has been able to meet 25% of its total RHNA goal thus far, including 7% percent of its lower-income housing goals. For 2022, the City stated in its Housing Element Annual Performance Report that 626 housing units were permitted, with 26 units targeting Very Low Income and Low Income households. The project will bring up to 282 units to market in 2028, all of which would be affordable, which would be within SANDAG's growth projection for housing during the 6th Cycle planning horizon (i.e., April 2021 – April 2029) and below the maximum density allowed by the General Plan. Therefore, the project is within the SANDAG regional growth forecast for the City that serves as the basis for the applicable air quality plan.

2.4.1.2 Conclusion

The project's increase in housing units and associated vehicle source emissions is within the growth projections for the City and region. Based on the analysis above, implementation of the project would not result in development in excess of that anticipated in local plans or increases in population/housing growth beyond those contemplated by SANDAG and utilized in the development of the SIP and RAQS. Because the proposed land uses and development intensity are consistent at the regional and City level with underlying the local air quality plans, the project would not obstruct or impede implementation of local air quality plans. Impacts would be **less than significant**.

2.4.2 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?

2.4.2.1 Analysis

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

2.4.2.2 Construction

Construction of the proposed project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (vendor and haul truck trips, and worker vehicle trips). Construction emissions can vary substantially day to day, depending on the level of activity, the specific type of operation, and for dust, the prevailing weather conditions.

Criteria air pollutant emissions associated with construction activities were quantified using CalEEMod. Default values provided by the program were used where detailed proposed project information was not available. A detailed depiction of the construction schedule—including information regarding phasing, equipment used during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Section 2.3.2. above.

Development of the proposed project would generate air pollutant emissions from entrained dust, off-road equipment, vehicle emissions, asphalt pavement application, and architectural coatings. As described previously, fugitive dust would be limited through compliance with SDAPCD Rule 55, which requires the restriction of visible emissions of fugitive dust beyond the property line. This measure is incorporated into the project as PDF-AQ-1.

Table 12 shows the estimated maximum unmitigated daily construction emissions associated with the construction phases of the project. Complete details of the emissions calculations are provided in Appendix A.

Table 12. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds Per Day					
Summer						
2026	3.40	25.72	38.32	0.06	3.41	1.44
2027	1.30	9.46	16.80	0.03	1.29	0.52
Winter						
2026	4.69	55.63	51.20	0.17	9.75	5.34
2027	57.72	20.06	22.57	0.04	4.18	2.18

Table 12. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds Per Day					
Maximum Daily Emissions	57.72	55.63	51.20	0.17	9.75	5.34
SDAPCD Threshold	75	250	550	250	100	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; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SDAPCD = San Diego Air Pollution Control District.

See Appendix A for complete results.

Emissions estimates for the proposed project include implementation of PDF-AQ-1, PDF-AQ-3, and PDF-AQ-4.

As shown in Table 12, daily construction emissions for the project would not exceed SDAPCD's significance thresholds, accordingly, the project's construction emissions would be **less than significant**.

2.4.2.3 Operation

Operation of the proposed project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources (vehicle trips), area sources (consumer products, landscape maintenance equipment), and energy sources. As discussed in Section 2.3.2., pollutant emissions associated with long-term operations were quantified using CalEEMod. Project-generated mobile source emissions were estimated in CalEEMod based on project-specific trip rates. CalEEMod default values were used to estimate emissions from the proposed project area and energy sources. The project includes a PDF that prohibits wood-burning. As such, CalEEMod area source emissions were adjusted to ensure that only electric fireplaces are installed and used in residential development. The air quality analysis conservatively estimated emissions assuming all electric fireplaces.

Table 13 presents the unmitigated maximum daily emissions associated with the operation of the project in 2028 after all phases of construction have been completed. Complete details of the emissions calculations are provided in Appendix A. "Summer" emissions are representative of the conditions that may occur during the O₃ season (May 1 to October 31), and "winter" emissions are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

As shown in Table 13, daily operational emissions for the project would not exceed SDAPCD's significance thresholds for any criteria air pollutant. Therefore, the project would result in a **less than significant impact** related to emissions of criteria air pollutant emissions during operation.

Table 13. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Summer						
Mobile	4.87	2.88	30.91	0.07	6.74	1.75
Area	8.20	0.18	19.16	<0.01	0.01	0.01
Energy	0.04	0.61	0.31	<0.01	0.05	0.05

Table 13. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Total	13.11	3.68	50.38	0.08	6.80	1.81
Winter						
Mobile	4.77	3.17	29.63	0.07	6.74	1.75
Area	6.29	0.00	0.00	0.00	0.00	0.00
Energy	0.04	0.61	0.31	0.00	0.05	0.05
Total	11.10	3.78	29.93	0.07	6.79	1.80
Maximum Daily Emissions	13.11	3.78	50.38	0.08	6.80	1.81
<i>SDAPCD Threshold</i>	75	250	550	250	100	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; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SDAPCD = San Diego Air Pollution Control District. <0.01 = reported value is less than 0.01.

Emissions estimates include implementation of PDF-AQ-2.
See Appendix A for complete results.

2.4.2.4 Conclusion

In analyzing cumulative impacts from a project, the analysis must specifically evaluate the project's contribution to the cumulative increase in pollutants for which the SDAB is designated as nonattainment for the CAAQS and NAAQS. If the project does not exceed thresholds and is determined to have less than significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality if the emissions from the project components, in combination with the emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds. However, the project would only be considered to have a significant cumulative impact if its contribution accounts for a significant proportion of the cumulative total emissions (i.e., it represents a "cumulatively considerable contribution" to the cumulative air quality impact).

Additionally, for the SDAB, the RAQS serves as the long-term regional air quality planning document for the purpose of assessing cumulative operational emissions within the basin to ensure the SDAB continues to make progress toward NAAQS and CAAQS attainment status. As such, cumulative projects located in the San Diego region would have the potential to result in a cumulative impact to air quality if, in combination, they would conflict with or obstruct implementation of the RAQS. Similarly, individual projects that are inconsistent with the regional planning documents on which the RAQS is based would have the potential to result in cumulative impacts if they represent development beyond regional projections.

The SDAB has been designated as a federal nonattainment area for O₃ and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}. PM₁₀ and PM_{2.5} emissions associated with construction generally result in localized impacts. The nonattainment status is the result of cumulative emissions from all sources of these air pollutants and their precursors within the SDAB. As shown in Table 12, the emissions of all criteria pollutants from the project's construction would be below the significance levels. Construction would be short term, temporary in nature, and activities would be considered typical of a residential project. Once construction is completed, construction-related emissions would cease. Operational emissions generated by the project would also not result in emissions that

exceed significance thresholds for any criteria air pollutant. As such, the project would result in less than significant impacts to air quality.

Regarding long-term cumulative operational emissions in relation to consistency with local air quality plans, the SIP and RAQS serve as the primary air quality planning documents for the state and SDAB, respectively. The SIP and RAQS rely on SANDAG growth projections based on population, vehicle trends, and land use plans developed by the cities and by the County as part of the development of their general plans. Therefore, projects that propose development that is consistent with the growth anticipated by local plans would be consistent with the SIP and RAQS and would not be considered to result in cumulatively considerable impacts from operational emissions. As discussed in Section 2.4.1 of this report, the project is consistent at a regional and City level with the underlying growth forecasts in the SIP and RAQS.

Based on the preceding, the project's construction and operations would not result in a cumulatively considerable net increase of O₃ concentrations, the only criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard, Cumulative impacts for construction and operation would be **less than significant**.

2.4.3 Would the Project expose sensitive receptors to substantial pollutant concentrations?

2.4.3.1 Analysis

The following analysis is focused on localized impacts relative to CO, TACs, Valley Fever, and overall health effects of criteria air pollutants.

2.4.3.2 Carbon Monoxide Hotspots

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

Projects contributing to adverse traffic impacts may result in the formation of CO hotspots. To verify that the project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hotspots was conducted. The County of San Diego's Guidelines for Determining Significance includes CO hotspot screening guidance (County of San Diego 2007) was followed to determine whether the project would require a site-specific hotspot analysis. Per guidance, any project that would place sensitive receptors within 500 feet of a signalized intersection operating at or below LOS E (peak-hour trips exceeding 3,000 trips) may require a "hotspot" analysis for CO. Likewise, projects that will cause road intersections to operate at or below a LOS E (i.e., with intersection peak-hour trips exceeding 3,000) will also have to conduct a CO "hotspot" analysis. The signalized intersection nearest to the project is located at Olive Drive and College Boulevard (>1,000 feet), which is currently

operating at LOS D and with the project it would continue to operate at LOS D with the project (LOS Engineering 2024). In the near term plus cumulative conditions with the project, the intersection would still operate at LOS D. This LOS is not below the County's screening criteria of LOS E. In the 2050-year cumulative conditions with project the intersection of Olive Drive and College Boulevard would operate at LOS F and E, in the AM and PM-peak hour, respectively. Although this intersection will operate in excess of the screening threshold, a CO hotspots that would expose sensitive receptors to substantial pollutant concentrations would not result for the following reasons.

Ambient CO levels are monitored at the San Diego-Ranch Carmel Drive air quality monitoring station, which is approximately 25 miles south of the project site. As noted in Section 2.2.2.1, because the SDAB is in attainment for CO, only two locations are monitored in the County and are considered to be representative of the entire air basin. Ambient CO levels monitored at this monitoring station indicate that the highest recorded 1-hour concentration of CO is 3.3 ppm (the State standard is 20 ppm) and highest 8-hour concentration is 1.8 ppm (the State standard is 9 ppm) during the past 3 years of available data (EPA 2024b). As discussed above, the highest CO concentrations typically occur during peak traffic hours, so CO impacts calculated under peak traffic conditions represent a worst-case analysis.

Since the last update of the County of San Diego's Guidelines for Determining Significance (2007), the County has evaluated the potential for the growth anticipated under its General Plan Update to result in CO "hot spots" throughout the County (County of San Diego 2009). To do this, the County reviewed the CO "hot spot" analysis conducted by the South Coast Air Quality Management District (SCAQMD) for their request to the USEPA for redesignation as a CO attainment area (SCAQMD 2003). In SCAQMD's analysis, they modeled the four most congested intersections identified in their basin (South Coast Air Basin [SCAB]), which included the following:

- **Long Beach Boulevard and Imperial Highway** – proximity to the Lynwood monitoring station, which consistently records the highest 8-hour CO concentrations in the SCAB each year.
- **Wilshire Boulevard and Veteran Avenue** – the most congested intersection in Los Angeles County, with an average daily traffic volume of 100,000 vehicles/day.
- **Highland Avenue and Sunset Boulevard** – one of the most congested intersections in the City of Los Angeles.
- **Century Boulevard and La Cienega Boulevard** – one of the most congested intersections in the City of Los Angeles.

The SCAQMD's analysis found that these intersections had an average 7.7 ppm 1-hour CO concentrations predicted by the models, which is only 38.5% of the 1-hour CO CAAQS of 20 ppm. Therefore, even the most congested intersections in SCAQMD's air basin, which have traffic volumes many multiples higher than those at Olive Drive and College Boulevard, would not experience a CO "hot spot".

As further support, the air quality monitoring station closest to the most congested intersection in Los Angeles County (Wilshire Boulevard/Veteran Avenue) is the VA Hospital, West Los Angeles Station (Site ID 060370113) located at Wilshire Boulevard and Sawtelle Boulevard, approximately 0.5 miles to the southwest. Ambient CO levels monitored at this representative monitoring station were 1.5 ppm for 1-hour CO and 1.0 ppm for 8-hour CO in 2021, down from 4.3 ppm for 1-hour and 2.7 ppm for 8-hour CO in 2002, indicating a noticeable improvement in background COD levels since the SCAQMD's regional hotspot analysis.

Given that traffic levels at Olive Drive and College Boulevard are a small fraction of those in the ACAQMD study that demonstrates that CO hot spots would not result, coupled with the considerably low level of CO concentrations in the project area, and continued improvements in vehicle emissions, the project would not result in CO “hot spots”. Consequently, implementation of the project would not result in CO concentrations in excess of the health protective CAAQS or NAAQS, and as such, would not expose sensitive receptors to substantial pollutant concentrations. Therefore, the project would result in a **less than significant** impact to air quality with regard to potential CO hotspots.

2.4.3.3 Toxic Air Contaminants

In addition to impacts from criteria pollutants, project impacts may include emissions of pollutants identified by the state and federal government as TACs or HAPs. The greatest potential for TAC emissions during construction would be DPM emissions from heavy equipment operations and heavy-duty trucks, and the associated health impacts to sensitive receptors. Construction of the project would occur over a period of 23 months and following completion of construction activities, project-related TAC emissions would cease. The closest sensitive receptors to the project site are single-family residences immediately adjacent to eastern project boundary on Olive Drive. Because construction would continue while portions of the project site are occupied with on-site residents in Building 1, construction TACs would also impact on-site residents. Accordingly, a construction health risk analysis was performed for the project to evaluate impacts both to off-site and on-site sensitive receptors (residents) as discussed below.

Based on results from the HRA, the closest exposed individual resident off-site would be located at the single-family residence immediately adjacent to the project’s eastern boundary on the north side of the Olive Drive cul de sac. The closest exposed individual resident on-site would be located on the eastern side of Building 1. Table 14 summarizes the results of the HRA for proposed project construction, and detailed results are provided in Appendix B, Health Risk Assessment Output Files.

Table 14. Construction Activity Health Risk Assessment Results Prior to Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Off Site				
Cancer Risk	Per Million	63.96	10.0	Potentially Significant
HIC	Not Applicable	0.04	1.0	Less than Significant
On Site				
Cancer Risk	Per Million	32.93	10	Potentially Significant
HIC	Not Applicable	0.04	1.0	Less than Significant

Source: Appendix B

Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index.

The results of the HRA demonstrate that the TAC exposure from construction diesel exhaust emissions would result in cancer risk above the 10 in 1 million threshold and Chronic Hazard Index less than 1 at both the closest exposed off-site and on-site residential receptors. Therefore, TAC emissions from construction of the project would result in a **potentially significant** impact and mitigation is required.

2.4.3.4 Valley Fever

Coccidioidomycosis, more commonly known as Valley Fever, is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in the soils of the southwestern United States. As noted in Section 2.1.4.2 the County is not considered a highly endemic region for Valley Fever with a reported 13.5 cases per 100,000 people (County of San Diego 2023), which is lower than the statewide and national rates of 20.1 per 100,000 and 14.3 per 100,000, respectively. In addition, the case rate in the project area is even lower with a reported 3.7 cases per 100,000 people (County of San Diego 2021). Nevertheless, the project would be required to comply with SDAPCD Regulation IV: Prohibitions; Rule 55: Fugitive Dust, which regulates fugitive dust emissions from any commercial construction or demolition activity. The project has incorporated fugitive dust control measures into the project as PDF-AQ-1. Implementation of PDF-AQ-1 would reduce fugitive dust impacts to less than significant for project construction, which would also minimize the potential release of the *Coccidioides immitis* fungus from construction activities. Based on the low incidence rate of Valley Fever in the County and project area and the implementation of fugitive dust control measures, the project's impact would be **less than significant** with respect to Valley Fever exposure for sensitive receptors.

2.4.3.5 Health Effects of Criteria Air Pollutants

The SDAPCD thresholds are based on the SDAB complying with the NAAQS and CAAQS which are protective of public health; therefore, no adverse effects to human health would result from the project. The following provides a general discussion of criteria air pollutants and their health effects.

Regarding VOCs, some VOCs would be associated with motor vehicles and construction equipment, while others are associated with architectural coatings and asphalt off-gassing, the emissions of which would not result in exceedances of SDAPCD's thresholds. Generally, the VOCs in architectural coatings and asphalt are of relatively low toxicity. Additionally, SDAPCD Rule 67.0.1 restricts the VOC content of coatings for both construction and operational applications.

In addition, VOCs and NO_x are precursors to O₃, for which the SDAB is designated as nonattainment with respect to the NAAQS and CAAQS (the SDAB is designated by EPA as an attainment area for the 1-hour O₃ NAAQS standard and 1997 8-hour NAAQS standard). The health effects associated with O₃, as discussed in Section 2.1.4, Criteria Air Pollutants, are generally associated with reduced lung function. The contribution of VOCs and NO_x to regional ambient O₃ concentrations is the result of complex photochemistry. The increases in O₃ concentrations in the SDAB due to O₃ precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O₃ concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O₃ NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O₃ precursors is speculative due to the lack of reliable and meaningful methods to assess this impact. Nonetheless, the VOC and NO_x emissions associated with project construction and operations could minimally contribute to regional O₃ concentrations and the associated health impacts. Due to the minimal contribution during construction and operation, as well as the existing good air quality in coastal San Diego areas, health impacts would be considered less than significant.

Similar to O₃, construction of the project would not exceed thresholds for PM₁₀ or PM_{2.5} and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. Due to the minimal contribution of particulate matter during construction and operation, health impacts would be considered less than significant.

Regarding NO₂, which is a constituent of NO_x, construction and operations of the project would not contribute to exceedances of the NAAQS and CAAQS for NO₂ since NO_x emissions would be less than the applicable SDAPCD threshold. As described in Section 2.1.4, NO₂ health impacts are associated with respiratory irritation. However, construction would be relatively short term, and the off-road construction equipment would be operating on various portions of the site and would not be concentrated in one portion of the site at any one time. Construction and operation of the project would not require any stationary emission sources that would create substantial, localized NO₂ impacts.

Based on the preceding considerations, health impacts from project-related criteria air pollutant emissions would be considered **less than significant**.

2.4.3.6 Mitigation

Mitigation is required to minimize potentially significant air quality impacts during construction of the project include the following:

MM-AQ-1 Require Use of Tier 4 Off-Road Equipment During Construction. Prior to the commencement of construction activities for the project, the Applicant shall require its construction contractor to demonstrate that all 75-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 (1) the Applicant documents equipment with Tier 4 Interim engines are not reasonably available, and (2) the required corresponding reductions in criteria air pollutant emissions can be achieved for the project from other combinations of construction equipment (for example, another piece of equipment can be replaced with a zero-emission equipment to offset the emissions associated with using a piece of equipment that does not meet Tier 4 Interim standards). Before an exemption may be granted, the Applicant's construction contractor shall: (1) demonstrate that at least two construction fleet owners/operators in the City of Oceanside or County of San Diego were contacted and that those owners/operators confirmed Tier 4 Interim equipment could not be located within the City of Oceanside or County of San Diego during the desired construction schedule; and (2) the proposed replacement equipment has been evaluated using California Emissions Estimator Model (CalEEMod) or other industry standard emission estimation method and documentation provided to the City to confirm that necessary project-generated emissions reductions are achieved.

2.4.3.7 Level of Significance After Mitigation

Table 15 summarizes the results of the HRA after implementation of MM-AQ-1 for construction of the proposed project. As shown, after mitigation, TAC exposure from construction diesel exhaust emissions would result in cancer risk below the 10 in 1 million threshold and Chronic Hazard Index would still be less than 1 threshold after implementation of mitigation at the closest exposed off-site and on-site residential receptors. The project would result in a **less than significant impact with mitigation** related to exposure to TAC emissions during construction.

Table 15. Construction Activity Health Risk Assessment Results After Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Off Site				
Cancer Risk	Per Million	7.94	10.0	Less than Significant
HIC	Not Applicable	0.005	1.0	Less than Significant
On Site				
Cancer Risk	Per Million	4.45	10	Less than Significant
HIC	Not Applicable	0.006	1.0	Less than Significant

Source: Appendix B

Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index.

2.4.3.8 Conclusion

VOC and NO_x emissions, as described previously, would minimally contribute to regional O₃ concentrations and the associated health effects. In addition to O₃, NO_x emissions would not contribute to potential exceedances of the NAAQS and CAAQS for NO₂. As shown in Table 3, the existing NO₂ concentrations in the area are well below the NAAQS and CAAQS standards. Thus, the project's operational NO_x emissions would not result in exceedances of the NO₂ standards or contribute to the associated health effects. CO tends to be a localized impact associated with congested intersections. The associated CO "hotspots" were discussed previously as a less than significant impact. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant. The project's emissions of PM₁₀ and PM_{2.5} would not contribute to potential exceedances of the NAAQS and CAAQS for particulate matter and would not obstruct the SDAB from coming into attainment for these pollutants and would not contribute to significant health effects associated with particulates. Therefore, the project would not expose sensitive receptors to substantial pollutant concentrations associated with criteria air pollutants such that impacts would be **less than significant**.

Regarding potential health risk impacts, the results of the HRA demonstrate that after implementation of MM-AQ-1, the TAC exposure from construction diesel exhaust emissions would not result in cancer risk above the 10 in 1 million threshold nor a Chronic Hazard Index greater than 1.0. As such, the project would not expose sensitive receptors to substantial pollutant concentrations and impacts would be **less than significant with mitigation**.

Because the incidence of Valley Fever is low in the project area and the project would implement PDF-AQ-1 to reduce fugitive dust emissions, the project would not expose sensitive receptors to substantial concentrations of Valley Fever spores and the impact would be **less than significant**.

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

2.4.4.1 Analysis

2.4.4.2 Construction

Odors would be generated from vehicles and/or equipment exhaust emissions during construction of the project. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and architectural coatings. Such odors are temporary and for the types of construction activities anticipated for project components, would generally occur at magnitudes that would not affect substantial numbers of people given the project's location and the limited number of on-site and off-site persons who could be potentially exposed to the limited odors project construction would generate. Therefore, project construction would not result in other emissions adversely affecting a substantial number of people and impacts would be **less than significant**.

2.4.4.3 Operational

Land use operations typically associated with odor complaints include industrial uses, agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, certain restaurants and fiberglass molding. The project does not propose and would not engage in any of these activities or other potential activities that would generate operational odors at a level that could produce odors or other emissions that would adversely affect a substantial number of people. The project is a residential development, located in an area with a relatively limited number of people in the vicinity, project operation would not result in other emissions adversely affecting a substantial number of people and impacts would be **less than significant**.

2.4.4.4 Conclusion

The project would result in a **less than significant impact** with respect to odors during construction and operation.

2.4.5 Other Air Quality-Related Impacts

2.4.5.1 Indoor Air Quality

Indoor air quality (IAQ) can be impacted by various factors and poor IAQ may have significant consequences for health, comfort, and productivity. Indoor air pollutants can include VOCs from paints, solvents, cleaning agents, and furnishings, and formaldehyde from furniture and building materials.

The City's CEQA Guidelines, State CEQA Guidelines, and California's air district guidelines, including the SDAPCD guidelines do not require an analysis of indoor air quality which could result in potential impacts to future residents associated with new construction. California air districts, including the SDAPCD, develop CEQA thresholds of significance based on scientific and factual data specific to what the air basin can accommodate without affecting the attainment date for state and federal AAQS. The AAQS is based on maximum pollutant levels for outdoor air

quality that would not result in harm to the public's health. Furthermore, building materials are required to reduce exposure to toxic substances through compliance with the EPA and CARB regulations, such as 40 CFR Part 770, Formaldehyde Emission Standards for Composite Wood Products. These regulations apply to manufacturers, distributors, importers, fabricators, and retailers of the products. All building materials used to construct the project would be required to comply with the applicable federal and state standards.

In addition, the project is required to comply with the 2022 CALGreen Code, which specifies VOC limits for adhesives, sealants, paints, and coatings (see Section 4.504, Pollutant Control, Chapter 4 in the 2022 CALGreen building code). In addition, the CALGreen building code requires that composite wood products (such as hardwood plywood and particleboard) meet the specifications for formaldehyde as outlined in CARB's Air Toxic Control Measures (see Section 4.504.4, Chapter 4 in the 2022 CALGreen building code). The exact types of interior building materials would not be known until the building permit stage; however, these materials would be typical of multifamily residential construction and would be required to comply with CARB regulations and the 2022 CALGreen building code. Accordingly, through compliance with laws, the project would not involve use of materials that contain formaldehyde, VOCs or chemicals in levels that expose sensitive receptors to substantial pollutant concentrations.

2.4.5.2 Rail Health Impacts

CEQA mandates that any proposed project undergo a comprehensive analysis of its potential impacts on the environment. This requirement underscores CEQA's focus on evaluating the effects of human activities on the natural world. Notably, CEQA directs attention to the project's influence on factors such as air rather than examining how the environment might affect the project itself. This approach was reinforced by the *California Building Industry Association v Bay Area Air Quality Management District* court case, where the California Supreme Court emphasized that CEQA primarily concerns the project's environmental impacts, rather than potential impediments the environment might pose to the project. The Court held that "agencies subject to CEQA generally are not required to analyze the impact of existing environmental conditions on a project's future users or residents. But when a proposed project risks exacerbating those environmental hazards or conditions that already exist, an agency must analyze the potential impact of such hazards on future residents or users. In those specific instances, it is the project's impact on the environment and not the environment's impact on the project that compels an evaluation of how future residents or users could be affected by exacerbated conditions."

CARB's 2005 Land Use Handbook provides guidance and recommendations for the siting of sensitive land uses, such as residences, near sources of air pollution. These recommendations aim to safeguard public health by minimizing exposure to harmful pollutants emitted from industrial facilities, transportation infrastructure, and other sources. The handbook emphasizes the importance of considering air quality impacts during the planning and development of new projects, especially in areas with high levels of pollution or where vulnerable populations reside.

The proposed project would involve the development of a residential project and is not itself a source of TACs that would exacerbate existing conditions. The nearest source of TACs is the rail line to the north of the project site that carries Sprinter commuter trains and BNSF freight trains. An HRA was prepared for the project to evaluate the potential health risks from the trains to the new residents. Section 2.3.2.4 outlines the methodology used to estimate health risks to the new residents. Based on results from the rail HRA, the closest exposed individual resident would be located on the north side of Building 1. Table 16 summarizes the results of the roadway HRA for the proposed project, and detailed results are provided in Appendix B.

Table 16. Summary of Maximum Rail Cancer and Chronic Health Risks

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Off Site				
Cancer Risk	Per Million	6.67	10	Less than Significant
HIC	Not Applicable	0.002	1	Less than Significant

Source: Appendix B

Notes: CEQA = California Environmental Quality Act; HIC = Chronic Hazard Index.

The results of the rail HRA demonstrate that the TAC exposure from train diesel exhaust emissions would result in a cancer risk of 6.67 in a million and a chronic hazard index of 0.002, which would not exceed the cancer risk threshold of 10 in 1 million nor would the chronic hazard index exceed the 1.0 significance threshold. In addition, since 2019 the CalGreen building code have required the use of Minimum Efficiency Reporting Value (MERV) 13 filters, which reduce PM₁₀ emissions by 90%, which would further reduce the risk noted above. As a conservative basis, the risk was assessed without reducing PM emissions.

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3 Greenhouse Gas Emissions

3.1 Environmental Setting

3.1.1 Climate Change Overview

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period (i.e., decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2023b).

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

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-twentieth century and is the most significant driver of observed climate change (IPCC 2013; EPA 2023b). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.1.5, Potential Effects of Climate Change.

3.1.2 Greenhouse Gases

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 emission reduction programs, GHGs include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃). (See also CEQA Guidelines, Section 15364.5.) Some GHGs, such as CO₂, CH₄, and N₂O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO₂ and CH₄ are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-

absorption potential than CO₂, include fluorinated gases, such as HFCs, PFCs, and SF₆, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the most common GHGs and their sources.⁵

Carbon Dioxide. CO₂ is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic (i.e., caused by human activity) GHG that affects the Earth's radiative balance. Natural sources of CO₂ include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO₂ are the combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

Methane. CH₄ is produced through both natural and human activities. CH₄ is a flammable gas and is the main component of natural gas. CH₄ is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

Nitrous Oxide. N₂O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N₂O. Sources of N₂O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N₂O as a propellant (e.g., rockets, racecars, and aerosol sprays).

Fluorinated Gases. Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric O₃-depleting substances (e.g., chlorofluorocarbons [CFCs], hydrochlorofluorocarbons [HCFCs], and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to O₃-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the O₃-depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF₆ is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF₆ is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** NF₃ is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

⁵ The descriptions of GHGs are summarized from the Intergovernmental Panel on Climate Change (IPCC) Second Assessment Report (1995), IPCC Fourth Assessment Report (2007), CARB's "GHG Inventory Glossary" (2024), and EPA's "Glossary of Climate Change Terms" (2024c).

Chlorofluorocarbons. CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere) and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O₃.

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

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

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

Ozone. Tropospheric O₃, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O₃, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O₂), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O₃, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

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

3.1.3 Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. 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 2023c). The Intergovernmental Panel on Climate Change (IPCC) developed the GWP concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to

that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO₂; therefore, GWP-weighted emissions are measured in metric tons (MT) of CO₂ equivalent (CO₂e).

The current version of CalEEMod (version 2022) assumes that the GWP for CH₄ is 25 (so emissions of 1 MT of CH₄ are equivalent to emissions of 25 MT of CO₂), and the GWP for N₂O is 298, based on the IPCC Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the Project.

3.1.4 Sources of Greenhouse Gas Emissions

Global Inventory

Anthropogenic GHG emissions worldwide in 2020 (the most recent year for which data is available) totaled approximately 49,800 million metric tons (MMT) of CO₂e, excluding land use change and forestry (PBL 2022). The top six GHG emitters include China, the United States, the Russian Federation, India, Japan, and the European Union, which accounted for approximately 60% of the total global emissions, or approximately 30,270 MMT CO₂e (PBL 2022). Table 17 presents the top GHG-emissions-producing countries.

Table 17. Top Greenhouse-Gas-Producer Countries

Country	2020 GHG Emissions (MMT CO ₂ e) ^a
China	14,300
United States	5,640
European Union	3,440
India	3,520
Russian Federation	2,210
Japan	1,160
Total	30,270

Source: PBL 2022.

Notes: GHG = greenhouse gas; MMT CO₂e = million metric tons of carbon dioxide equivalent.

^a Column may not add due to rounding.

National Inventory

Per the EPA’s Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2022, total United States GHG emissions were approximately 6,343.2 million MT CO₂e (MMT CO₂e) in 2022 (EPA 2024b). Total U.S. emissions have decreased by 3.0% from 1990 to 2022, down from a high of 15.2% above 1990 levels in 2007. Gross emissions increased from 2021 to 2022 by 0.2% (14.4 MMT CO₂e). Net emissions (i.e., including sinks) were 5,489.0 MMT CO₂e in 2022. Overall, net emissions increased 1.3% from 2021 to 2022 and decreased 16.7% from 2005 levels. Between 2021 and 2022, the increase in total GHG emissions was driven largely by an increase in CO₂ emissions from fossil fuel combustion due to the continued economic activity rebounding after the height of the COVID-19 pandemic. The CO₂ emissions from fossil fuel combustion increased by 1.0% from 2021 to 2022, including a 5.0% increase in residential sector emissions, 8.9% increase in commercial sector emissions, 2.6% increase in industrial emissions, a 0.1 percent decrease in transportation sector emissions and a 0.6% decrease in electric power sector emissions. Carbon sequestration in the Land Use, Land-Use Change, and Forestry sector offset 14.5% of total emissions in 2022 (EPA 2024d).

State Inventory

According to California's 2000–2021 GHG emissions inventory (2023 edition), California emitted approximately 381.3 MMT CO₂e in 2021, including emissions resulting from out-of-state electrical generation (CARB 2023). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high-GWP substances, and recycling and waste. Table 18 presents California GHG emission source categories and their relative contributions to the emissions inventory in 2021.

Table 18. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO ₂ e)	Percent of Total
Transportation	145.6	38.2%
Industrial uses	73.9	19.4%
Electricity generation ^a	62.4	16.4%
Residential and commercial uses	38.8	10.2%
Agriculture and forestry	30.9	8.1%
High-GWP substances	21.3	5.6%
Recycling and waste	8.4	2.2%
Totals	381.3	100%

Source: CARB 2023.

Notes: GHG = greenhouse gas; GWP = global warming potential; MMT CO₂e = million metric tons of carbon dioxide equivalent. Emissions reflect 2020 California GHG inventory. Totals may not sum due to rounding.

^a Includes emissions associated with imported electricity, which account for 19.82 MMT CO₂e.

Per-capita GHG emissions in California have dropped from a 2001 peak of 13.8 MT per person to 9.7 MT per person in 2021, a 30% decrease. In 2016, statewide GHG emissions dropped below the 2020 GHG limit of 431 MMT CO₂e and have remained below that level since that time (CARB 2023).

Local Inventories

According to the GHG inventory data compiled by the Energy Policy Initiative Center for the 2021 Regional Plan, in 2016, the County (as defined to include all cities therein and unincorporated County areas) emitted approximately 26 MMT CO₂e (SANDAG 2021). As outlined in Table 19, passenger cars and light-duty trucks generated about 40% of these emissions.

Table 19. San Diego County GHG Emissions by Sectors

Source Category	Annual GHG Emissions (MMT CO ₂ e)	Percent of Total
Passenger Cars and Light Duty Trucks	10.4	40.33%
Electricity	5.3	20.55%
Natural Gas	3.1	12.02%
Industrial	2.1	8.14%
Heavy-Duty Trucks and Vehicles	1.8	6.98%
Other Fuels	1.1	4.27%

Table 19. San Diego County GHG Emissions by Sectors

Source Category	Annual GHG Emissions (MMT CO ₂ e)	Percent of Total
Off-Road Transportation	0.62	2.40%
Solid Waste	0.59	2.29%
Water	0.24	0.93%
Aviation	0.21	0.81%
Rail	0.11	0.43%
Wastewater	0.07	0.27%
Agriculture	0.05	0.19%
Marine Vessels	0.05	0.19%
Soil Management	0.05	0.19%
Total	25.79	100%

Source: SANDAG 2021.

Notes: GHG = greenhouse gas; MMT CO₂e = million metric tons of carbon dioxide equivalent per year

The most recent City community emissions is from the 2013 emissions inventory prepared for the 2019 Climate Action Plan shown in Table 20.

Table 20. City of Oceanside GHG Emissions by Sectors for 2013

Source Category	Annual GHG Emissions (MT CO ₂ e)	Percent of Total
Transportation	477,178	48.5%
Electricity	251,524	25.6%
Natural Gas	162,447	16.5%
Solid Waste	40,615	4.1%
Water ^a	27,420	2.8%
Municipal Operations	24,828	2.5%
Total	984,012	100%

Source: City of Oceanside 2019.

Notes: GHG emissions for each category are rounded. Sums may not add up to totals due to rounding.

^a Emissions associated with water and wastewater treatment at City-operated facilities were accounted for as Municipal emissions. Water emissions include upstream emissions from import of water to the City.

3.1.5 Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. The 2014 IPCC Synthesis Report (IPCC 2014) indicated that warming of the climate system is unequivocal, and since the 1950s, many of the observed changes are unprecedented over decades to millennia. Signs that global climate change has occurred include warming of the atmosphere and ocean, diminished amounts of snow and ice, rising sea levels, and ocean acidification (IPCC 2014).

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, frequency of severe weather events, and electricity demand and supply.

The primary effect of global climate change has been a rise in average global tropospheric temperature. Global surface temperature in the first two decades of the twenty-first century (2001–2020) was 0.99 [0.84 to 1.10] °C higher than 1850–1900 (IPCC 2023). Global surface temperature has increased faster since 1970 than in any other 50-year period over at least the last 2000 years (IPCC 2023). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities, principally through emissions of GHGs, have unequivocally caused global warming, with global surface temperature reaching 1.1 °C above 1850–1900 in 2011–2020 (IPCC 2023).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. OEHHA identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state. Changes in the state's climate have been observed including an increase in annual average air temperature, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days, and an increase in variability of statewide precipitation (OEHHA 2022).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed such as high variability of snow-water content (i.e., amount of water stored in snowpack), decrease in spring snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2022).

Impacts of climate change on biological systems, including humans, wildlife, and vegetation, have also been observed including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has been increasing.

CNRA has released four California Climate Change Assessments (in 2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming. To address local and regional governments' need for information to support action in their communities, the Fourth Assessment (CNRA 2019a) includes reports for nine regions of the state. Key highlights for the San Diego Region (include the following (CNRA 2019b):

- Temperature is projected to increase substantially, along with mean temperature, heat wave frequency will increase, with more intensity and longer duration.

- Precipitation will remain highly variable but will change in character, with wetter winters, drier springs, and more frequent and severe droughts punctuated by more intense individual precipitation events.
- Wildfire risk will increase in the future as climate warms. The risk for large catastrophic wildfires driven by Santa Ana wind events will also likely increase as a result of a drier autumns leading to low antecedent precipitation before the height of the Santa Ana wind season.
- The sea level along San Diego County is expected to rise. High tides combined with elevated shoreline water levels produced by locally and distantly driven wind-driven waves will drive extreme events. Longer-term sea level will increase rapidly in the second half of the century and will be punctuated by short periods of storm-driven extreme sea levels that will imperil existing infrastructure, structures, and ecosystems with increasing frequency.

3.2 Regulatory Setting

3.2.1 International Regulations

In 1988, the United Nations and the World Meteorological Organization established the IPCC to assess the scientific, technical, and socioeconomic information relevant to understanding the scientific basis for human-induced climate change, its potential impacts, and options for adaptation and mitigation. The most recent reports of the IPCC have emphasized the scientific consensus that real and measurable changes to the climate are occurring, that they are caused by human activity, and that significant adverse impacts on the environment, the economy, and human health and welfare are unavoidable.

On March 21, 1994, the United States joined a number of countries around the world in signing the United Nations Framework Convention on Climate Change. Under the Convention, governments agreed to gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of global climate change.

3.2.2 Federal

Massachusetts v. U.S. Environmental Protection Agency

In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court ruled that CO₂ was a pollutant and directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the EPA administrator is required to follow the language of Section 202(a) of the Clean Air Act. On December 7, 2009, the administrator signed a final rule with two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act:

- **Endangerment Finding:** The elevated concentrations of GHGs—CO₂, CH₄, N₂O, hydrofluorocarbons, perfluorocarbons, and SF₆—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the “endangerment finding.”

- **Cause or Contribute Finding:** The combined emissions of GHGs—CO₂, CH₄, N₂O, and hydrofluorocarbons—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is referred to as the “cause or contribute finding.”

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

Energy Independence and Security Act

The Energy Independence and Security Act of 2007 (Public Law 110-140), among other key measures, would do the following in aiding the reduction of national GHG emissions:

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

Federal Vehicle Standards

In 2007, in response to the Massachusetts v. EPA decision, the Bush Administration issued Executive Order (EO) 13432 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011; and, in 2010, the EPA and the NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012 through 2016 (75 FR 25324–25728).

In 2010, President Obama issued a memorandum directing the Department of Transportation, the Department of Energy, the EPA, and the NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and the NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017 through 2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO₂ in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017 through 2021 (77 FR 62624–63200). On January 12, 2017, the EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks.

In 2011, in addition to the regulations applicable to cars and light-duty trucks described above, the EPA and the NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014 through 2018. The standards for CO₂ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6% to 23% over the 2010 baselines (76 FR 57106–57513).

In August 2016, the EPA and the NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all sizes of buses and work trucks. The final standards are expected to lower CO₂ emissions by approximately 1.1 billion MT and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

On April 2, 2018, the EPA, under administrator Scott Pruitt, reconsidered the final determination for light-duty vehicles and withdrew its previous 2017 determination, stating that the current standards may be too stringent and therefore should be revised as appropriate (83 FR 16077–16087).

In August 2018, the EPA and the NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and to establish new standards for model years 2021 through 2026. Compared to maintaining the post-2020 standards then in place, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2% to 3% of total daily consumption, according to the Energy Information Administration) and impact the global climate by 3/1000th of 1 °C by 2100 (EPA and NHTSA 2018).

In 2019, the EPA and the NHTSA published the Safer Affordable Fuel-Efficient Vehicles Rule Part One: One National Program (SAFE-1) (84 FR 51310), which revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle (ZEV) mandates in California. In March 2020, Part Two was issued, which set CO₂ emissions standards and Corporate Average Fuel Economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026.

In response to Executive Order 13990, on December 21, 2021, the NHTSA finalized the Corporate Average Fuel Economy Preemption rule to withdraw its portions of the Part One Rule. The final rule concluded that the Part One Rule overstepped the agency's legal authority and established overly broad prohibitions that did not account for a variety of important state and local interests.

In March 2022, the NHTSA established new fuel economy standards that would require an industry-wide fleet average of approximately 49 miles per gallon for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8% annually for model years 2024 and 2025, and 10% annually for model year 2026.

The Inflation Reduction Act of 2022

The Inflation Reduction Act was signed into law by President Biden in August 2022. The Act includes specific investment in energy and climate reform and is projected to reduce GHG emissions within the United States by 40% as compared to 2005 levels by 2030. The Act allocates funds to boost renewable energy infrastructure (e.g., solar panels and wind turbines), includes tax credits for the purchase of electric vehicles (EVs), and includes measures that will make homes more energy efficient.

The Inflation Reduction Act authorized the EPA to implement the Greenhouse Gas Reduction Fund program, which is a historic, \$27 billion investment to mobilize financing and private capital to combat the climate crisis and ensure American economic competitiveness. The Greenhouse Gas Reduction Fund will be designed to achieve the following program objectives: reduce GHG emissions and other air pollutants; deliver the benefits of GHG- and air-pollution-reducing projects to American communities, particularly low-income and disadvantaged communities; and mobilize

financing and private capital to stimulate additional deployment of GHG and air pollution reducing projects (EPA 2023h).

The Inflation Reduction Act confirms that reduction of GHGs is a core goal of the Clean Air Act and that the funding provided should allow the EPA to increase the scope of its Clean Air Act rulemakings. The Act also confirms applicability of the Inflation Reduction Act to GHGs in three specific areas: (1) California's ability to regulate GHG emissions from vehicles; (2) the EPA's authority to regulate CH₄ emissions from oil and gas facilities; and (3) the EPA's authority to regulate GHG emissions from power plants.

3.2.3 State Regulations

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

3.2.3.1 State Climate Change Targets

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

Executive Order S-3-05

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

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

EO S-3-05 also directed the California Environmental Protection Agency to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry.

Assembly Bill 32

In furtherance of the goals identified in EO S-3-05, the Legislature enacted AB 32, the California Global Warming Solutions Act of 2006 (California Health and Safety Code Sections 38500–38599). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions at 1990 levels by 2020, and initiate the transformations required to achieve the state's long-range climate objectives.

Executive Order B-30-15

EO B-30-15 (April 2015) identified an interim GHG-reduction target in support of targets previously identified under S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing GHG emissions to 40% below 1990 levels by

2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050, as set forth in S-3-05. To facilitate achieving this goal, EO B-30-15 called for CARB to update the Climate Change Scoping Plan (Scoping Plan) to express the 2030 target in terms of millions of metric tons (MMT) CO₂e. The EO also called for state agencies to continue to develop and implement GHG emission-reduction programs in support of the reduction targets.

Senate Bill 32 and Assembly Bill 197

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

Executive Order B-55-18

EO B-55-18 (September 2018) identified a policy for the state to achieve carbon neutrality as soon as possible (no later than 2045) and achieve and maintain net negative emissions thereafter. The goal is in addition to the existing statewide targets of reducing the state's GHG emissions. CARB will work with relevant state agencies to ensure that future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.

Assembly Bill 1279

The Legislature enacted AB 1279, the California Climate Crisis Act, in September 2022. The bill declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, statewide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels.

California Air Resources Board's Climate Change Scoping Plan

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

In 2014, CARB approved the first update to the Scoping Plan. The First Update to the Climate Change Scoping Plan: Building on the Framework (2014 Scoping Plan Update) defined the state's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EO S-3-05 and EO B-16-2012 (CARB 2014). The 2014 Scoping Plan Update concluded that California was on track to meet the

2020 target but recommended that a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions. The 2014 Scoping Plan Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050 including energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies.

In December 2017, CARB released the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan Update) for public review and comment (CARB 2017a). The 2017 Scoping Plan Update builds on the successful framework established in the initial Scoping Plan and 2014 Scoping Plan Update, while identifying new technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target and define the state's climate change priorities to 2030 and beyond. The strategies' known commitments include implementing renewable energy and energy efficiency (including the mandates of SB 350), increased stringency of the Low Carbon Fuel Standard, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant (SLCP) Plan, and increased stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, the 2017 Scoping Plan Update recommends continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%.

CARB adopted the 2022 Scoping Plan Update in December 2022. The 2022 CARB Scoping Plan Update outlines the state's plan to reach carbon neutrality by 2045 or earlier, while also assessing the progress the state is making toward achieving GHG reduction goals by 2030. Per the Legislative Analyst's Office, the 2022 CARB Scoping Plan identifies a more aggressive 2030 GHG goal. As it relates to the 2030 goal, perhaps the most significant change in the 2022 plan (as compared to previous Scoping Plans) is that it identifies a new GHG target of 48% below the 1990 level, compared to the current statutory goal of 40% below. Current law requires the state to reduce GHG emissions by at least 40% below the 1990 level by 2030 but does not specify an alternative goal. According to CARB, a focus on the lower target is needed to put the state on a path to meeting the newly established 2045 goal, consistent with the overall path to 2045 carbon neutrality. The carbon neutrality goal requires CARB to expand proposed actions from only the reduction of anthropogenic sources of GHG emissions to also include those that capture and store carbon (e.g., through natural and working lands, or mechanical technologies). The carbon reduction programs build on and accelerate those currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen (CARB 2022i).

The 2022 CARB Scoping Plan Update also emphasizes that there is no realistic path to carbon neutrality without carbon removal and sequestration, and to achieve the state's carbon neutrality goal, carbon reduction programs must be supplemented by strategies to remove and sequester carbon. Strategies for carbon removal and sequestration include carbon capture and storage from anthropogenic point sources, where CO₂ is captured as it leaves a facility's smokestack and is injected into geologic formations or used in industrial materials (e.g., concrete); and CO₂ removal from ambient air, through mechanical (e.g., direct air capture with sequestration) or nature-based (e.g., management of natural and working lands) applications.

The 2022 CARB Scoping Plan Update details "Local Actions" in Appendix D. The Appendix D Local Actions include recommendations to build momentum for local government actions that align with the state's climate goals, with a focus on local GHG reduction strategies (commonly referred to as climate action planning) and approval of new

land use development projects, including through environmental review under CEQA. The recommendations provided in 2022 CARB Scoping Plan Appendix D are non-binding (i.e., not regulatory) and should not be interpreted as a directive to local governments, but rather as evidence-based analytical tools to assist local governments with their role as essential partners in achieving California's climate goals.

2022 CARB Scoping Plan Appendix D recognizes consistency with a CEQA-qualified GHG reduction plan such as a climate action plan (CAP) as a first option for evaluating potential GHG emission impacts under CEQA. Absent a qualified GHG reduction plan, for residential and mixed-use projects, 2022 CARB Scoping Plan Appendix D provides a second option for evaluating project consistency with recommendations for key attributes that projects should achieve that would align with the state's climate goals. These key attributes include EV charging infrastructure, infill location, no loss or conversion of natural and working lands, transit-supportive densities or proximity to transit stops, reducing parking requirements, provision of affordable housing (at least 20% of units), no net loss of existing affordable units, and all-electric appliances with no natural gas connection (CARB 2022i). Projects that achieve all key attributes are considered "clearly consistent" with the state's climate and housing goals, since these attributes address the largest sources of operational emissions for residential and mixed-use projects. According to the 2022 CARB Scoping Plan Update, in general, residential and mixed-use projects that incorporate all these attributes are aligned with the state's priority GHG reduction strategies for local climate action as shown on Table 1 of the 2022 CARB Scoping Plan Update, and with the state's climate and housing goals. Such projects are considered consistent with the Scoping Plan; and therefore, the GHG emissions associated with such projects generally result in a less-than-significant GHG impact under CEQA (CARB 2022i). Additionally, the 2022 CARB Scoping Plan Update states that lead agencies under CEQA "may determine, with adequate additional supporting evidence, that projects that incorporate some, but not all, of the key project attributes are consistent with the State's climate goals" (CARB 2022i).

The above is CARB's recommended approach for evaluating significance of GHG impacts for residential and mixed-use development projects (CARB 2022i). However, alternative approaches to evaluating project-level alignment with state climate goals are also provided in the 2022 CARB Scoping Plan Appendix D. Lead agencies under CEQA can make a significance determination based on whether the project would result in net-zero GHG emissions and whether the project is consistent with a significance determination/threshold recommended by the applicable air district or other lead agencies (CARB 2022i). The 2022 CARB Scoping Plan Appendix D acknowledges, however, that net zero may not be feasible or appropriate for every project (CARB 2022i).

Executive Order B-18-12

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

Senate Bill 605 and Senate Bill 1383

SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of SLCPs in the state (California Health and Safety Code Section 39730) and SB 1383 (2016) requires CARB to approve and implement that strategy by January 1, 2018 (California Public Resources Code Sections 42652–43654). SB 1383 also establishes specific targets for the reduction of SLCPs (40% below 2013 levels by 2030 for CH₄ and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon) and provides direction for reductions from dairy and

livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its SLCP Reduction Strategy in March 2017 (CARB 2017b). The SLCP Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, CH₄, and fluorinated gases (CARB 2017b).

Assembly Bill 1757

AB 1757 (September 2022) requires the CNRA to determine a range of targets for natural carbon sequestration, and for nature-based climate solutions that reduce GHG emissions for future years 2030, 2038, and 2045. These targets are to be determined by no later than January 1, 2024, and are established to support the state's goals to achieve carbon neutrality and foster climate adaptation and resilience.

3.2.3.2 Building Energy

California Code of Regulations, Title 24, Part 6

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

The current Title 24, Part 6 standards, referred to as the 2022 Title 24 Building Energy Efficiency Standards, became effective on January 1, 2023. The 2022 Energy Code focuses on four key areas in newly constructed homes and businesses quality (CEC 2021):

- Encouraging electric heat pump technology for space and water heating, which consumes less energy and produces fewer emissions than gas-powered units.
- Establishing electric-ready requirements for single-family homes to position owners to use cleaner electric heating, cooking, and EV charging options whenever they choose to adopt those technologies.
- Expanding solar PV system and battery storage standards to make clean energy available on site and complement the state's progress toward a 100% clean electricity grid.
- Strengthening ventilation standards to improve indoor air quality.

California Code of Regulations, Title 24, Part 11

In addition to CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (24 CCR Part 11), which is commonly referred to as California Green Building Standards (CALGreen), establishes minimum mandatory standards and voluntary

standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals. The 2022 CALGreen standards are the current applicable standards.

California Code of Regulations, Title 20

Title 20 of the California Code of Regulations requires manufacturers of appliances to meet state and federal standards for energy and water efficiency (20 CCR 1401–1410). CEC certifies an appliance based on a manufacturer’s demonstration that the appliance meets the standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwashers; clothes washers and dryers; cooking products; electric motors; low voltage dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

Senate Bill 1

SB 1 (2006) established a \$3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016. SB 1 added sections to the California Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for PV systems to meet minimum energy-efficiency levels and performance requirements (California Public Resources Code Sections 25780–25784). Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for both homes and businesses within 10 years of adoption and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed “Go Solar California,” was previously titled “Million Solar Roofs.”

Assembly Bill 1470

This bill established the Solar Water Heating and Efficiency Act of 2007 (California Public Utilities Code Sections 2851–2869). The bill makes findings and declarations of the Legislature relating to the promotion of solar water heating systems and other technologies that reduce natural gas demand.

Assembly Bill 1109

Enacted in 2007, AB 1109 required CEC to adopt minimum energy efficiency standards for general-purpose lighting to reduce electricity consumption by 50% for indoor residential lighting and by 25% for indoor commercial lighting (California Public Resources Code Section 25402.5.4).

3.2.3.3 Renewable Energy and Energy Procurement

Senate Bill 1078, Senate Bill 1368, Executive Order S-14-08, Executive Order S-21-09 and Senate Bill X1-2, and Senate Bill 1020

SB 1078 (2002) (California Public Utilities Code Section 399.11 et seq.) established the Renewables Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107, EO S-14-08, and EO S-21-09).

SB 1368 (2006), required CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities (California Public Utilities Code Section 8340–8341). These standards must be consistent with the standards adopted by the California Public Utilities Commission (CPUC).

EO S-14-08 (2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This EO required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the EO directed state agencies to take appropriate actions to facilitate reaching this target. CNRA, in collaboration with CEC and the California Department of Fish and Wildlife, was directed to lead this effort.

EO S-21-09 (2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with CPUC and CEC to ensure that the regulation builds upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health, and those that can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard; however, this regulation was not finalized because of subsequent legislation (SB X1-2) signed by Governor Brown in April 2011.

SB X1-2 (April 2011) expanded RPS by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, PV, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location. SB X1-2 applies to all electricity retailers in the state, including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All these entities must meet the renewable energy goals listed above.

SB 350 (2015) further expanded the RPS program by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (such as heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires CPUC, in consultation with CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal.

SB 100 (2018) increased the standards set forth in SB 350, establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024; 52% by December 31, 2027; and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

SB 1020 (September 2022) revises the standards from SB 100, requiring the following percentage of retail sales of electricity to California end-use customers to come from eligible renewable energy resources and zero-carbon resources: 90% by December 31, 2035; 95% by December 31, 2040; and 100% by December 31, 2045.

3.2.3.4 Mobile Sources

State Vehicle Standards (Assembly Bill 1493 and Executive Order B-16-12)

AB 1493 (July 2002) was enacted in response to the transportation sector accounting for a large share of California's CO₂ emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by CARB to be vehicles that are primarily used for noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of ZEVs. It ordered CARB, CEC, CPUC, and other relevant agencies to work with the Plug-In Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve benchmark goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 identified a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare. As explained under the "Federal Vehicle Standards" description in Section 3.2.2, Federal Regulations, EPA and NHTSA approved the SAFE Vehicles Rule Part One and Two, which revoked California's authority to set its own GHG emissions standards and set ZEV mandates in California.

As also explained in Section 3.2.2, in March 2022, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate. EPA's action concludes its reconsideration of the 2019 SAFE-1 rule by finding that the actions taken under the previous administration as a part of SAFE-1 were decided in error and are now entirely rescinded.

Heavy-Duty Diesel

CARB adopted the final Heavy-Duty Truck and Bus Regulation on December 31, 2014, to reduce DPM, a major source of black carbon, and NO_x emissions from heavy-duty diesel vehicles (13 CCR 2025). The rule requires that DPM filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxics Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR 2485).

Executive Order S-1-07

EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining Low Carbon Fuel Standard for GHG emissions measured in CO₂e grams per unit of fuel energy sold in California. The target of the Low Carbon Fuel Standard is to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel—including extraction/feedstock production, processing, transportation, and final consumption—per unit of energy delivered.

Senate Bill 375

SB 375 (California Government Code Section 65080) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG-reduction targets for the automobile and light-truck sector for 2020 and 2035, and to update those targets every 8 years. SB 375 requires the state's 18 regional metropolitan planning organizations (MPOs) to prepare an SCS as part of their RTP that will achieve the GHG-reduction targets set by CARB. If an MPO is unable to devise an SCS to achieve the GHG-reduction target, the MPO must prepare an alternative planning strategy demonstrating how the GHG-reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

An SCS does not (1) regulate the use of land; (2) supersede the land use authority of cities and counties; or (3) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it (California Government Code Section 65080[b][2][K]). Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process. Unlike AB 32, the California Global Warming Solutions Act of 2006, with its market mechanisms that generate cap-and-trade auction proceeds to the state for reinvestment, SB 375 does not provide any new financial resources to make the production and preservation of affordable homes near transit feasible (California Housing Partnership Corporation and TransForm 2014).

Advanced Clean Cars Program and Zero-Emissions Vehicle Program

The Advanced Clean Cars (ACC) I program (January 2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package of regulations: the Low-Emission Vehicle (LEV) regulation for criteria air pollutant and GHG emissions and a technology forcing regulation for ZEVs that contributes to both types of emission reductions (CARB 2024j). The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75% less smog-forming pollution than the average new car sold in 2015. The ZEV program will act as the focused technology of the ACC I program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid EVs in the 2018 to 2025 model years.

The ACC II program, which was adopted in August 2022, established the next set of LEV and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality O₃ standards and California's carbon neutrality standards (CARB 2024j). The main objectives of ACC II are as follows:

- Maximize criteria and GHG emission reductions through increased stringency and real-world reductions.
- Accelerate the transition to ZEVs through both increased stringency of requirements and associated actions to support wide-scale adoption and use.

The ACC II rulemaking package also considers technological feasibility, environmental impacts, equity, economic impacts, and consumer impacts.

Executive Order N-79-20

EO N-79-20 (September 2020) requires CARB to develop regulations as follows: (1) Passenger vehicle and truck regulations requiring increasing volumes of new ZEVs sold in the state towards the target of 100% of in-state sales by 2035; (2) medium- and heavy-duty vehicle regulations requiring increasing volumes of new zero-emission trucks and buses sold and operated in the state towards the target of 100% of the fleet transitioning to ZEVs by 2045 everywhere feasible and for all drayage trucks to be zero emission by 2035; and (3) strategies, in coordination with other state agencies, the EPA, and local air districts, to achieve 100% zero emissions from off-road vehicles and equipment operations in the state by 2035. EO N-79-20 called for the development of a ZEV Market Development Strategy, which was released February 2021, to be updated every 3 years, that ensures coordination and implementation of the EO and outlines actions to support new and used ZEV markets. In addition, the EO specifies identification of near-term actions, and investment strategies, to improve clean transportation, sustainable freight, and transit options; and calls for development of strategies, recommendations, and actions by July 15, 2021, to manage and expedite the responsible closure and remediation of former oil extraction sites as the state transitions to a carbon-neutral economy.

Advanced Clean Trucks Regulation

The Advanced Clean Trucks Regulation was also approved by CARB in 2020. The purpose of the Advanced Clean Trucks Regulation is to accelerate the market for ZEVs in the medium- and heavy-duty truck sector and to reduce air pollutant emissions generated from on-road mobile sources (CARB 2024k). The regulation has two components, (1) a manufacturer sales requirement and (2) a reporting requirement:

- **Zero-emission truck sales:** Manufacturers who certify Class 2b–8 chassis or complete vehicles with combustion engines will be required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales would need to be 55% of Class 2b–3 truck sales, 75% of Class 4–8 straight truck sales, and 40% of truck tractor sales.
- **Company and fleet reporting:** Large employers including retailers, manufacturers, brokers, and others will be required to report information about shipments and shuttle services. Fleet owners with 50 or more trucks will be required to report about their existing fleet operations. This information will help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

3.2.3.5 Water

Senate Bill X7-7

SB X7-7, or the Water Conservation Act of 2009, required that all water suppliers increase their water use efficiency with an overall goal of reducing per capita urban water use by 20% by December 31, 2020. Each urban water supplier was required to develop water use targets to meet this goal.

Executive Order B-29-15

In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources has modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

Executive Order N-10-21

In response to a state of emergency due to severe drought conditions, EO N-10-21 (July 2021) called on all Californians to voluntarily reduce their water use by 15% from their 2020 levels. Actions suggested in EO N-10-21 include reducing landscape irrigation, running dishwashers and washing machines only when full, finding and fixing leaks, installing water-efficient showerheads, taking shorter showers, using a shut-off nozzle on hoses, and taking cars to commercial car washes that use recycled water.

3.2.3.6 Solid Waste

Assembly Bill 939, Assembly Bill 341, Assembly Bill 1826, and Senate Bill 1383

In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code Section 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board (replaced in 2010 by the California Department of Resources Recycling and Recovery, or CalRecycle), which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000.

AB 341 (2011) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required CalRecycle to develop strategies to achieve the state's policy goal. CalRecycle has conducted multiple workshops and published documents that identify priority strategies that it believes would assist the state in reaching the 75% goal by 2020.

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

SB 1383 (2016) requires a 50% reduction in organic waste disposal from 2014 levels by 2020 and a 75% reduction by 2025—essentially requiring the diversion of up to 27 million tons of organic waste—to reduce GHG emissions. SB 1383 also requires that not less than 20% of edible food that is currently disposed be recovered for human consumption by 2025.

3.2.3.7 Other State Actions

Senate Bill 97

SB 97 (2007) directed the Governor’s Office of Planning and Research and CNRA to develop guidelines under CEQA for the mitigation of GHG emissions. CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures (14 CCR 15126.4[c]). The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. CNRA also acknowledged that a lead agency could consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project’s GHG emissions (CNRA 2009).

With respect to GHG emissions, CEQA Guidelines Section 15064.4(a), as subsequently amended in 2018, states that lead agencies “shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate” GHG emissions. The CEQA Guidelines now note that an agency “shall have discretion to determine, in the context of a particular project, whether to: (1) Quantify greenhouse gas emissions resulting from a project; and/or (2) Rely on a qualitative analysis or performance-based standards” (14 CCR 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

Executive Order S-13-08

EO S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009, and an update, *Safeguarding California: Reducing Climate Risk*, followed in July 2014. To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: agriculture, biodiversity and habitat, emergency management, energy, forestry, ocean and coastal ecosystems and resources, public health, transportation, and water. Issuance of *Safeguarding California: Implementation Action Plans* followed in March 2016. In January 2018, CNRA released the *Safeguarding California Plan: 2018 Update*, which communicates current and needed actions that state government should take to build climate change resiliency.

3.2.4 Local

3.2.4.1 San Diego Association of Governments

Regional Transportation Plan/Sustainable Communities Strategy

The passage of SB 375 requires MPOs to prepare an SCS in their RTP. SANDAG serves as the MPO for the San Diego region and is responsible for developing and adopting a SCS that integrates transportation, land use, and housing to meet GHG reduction targets set by CARB. The RTP/SCS is updated every 4 years in collaboration the 18 cities and unincorporated County of San Diego, in addition to regional, state, and federal partners. The most recent, *San Diego Forward: The 2021 Regional Plan* was adopted in 2021 and provides guidance on meeting or exceed GHG targets through implementation of five key transportation strategies, including complete corridors, high-speed transit services, mobility hubs, flexible fleets, and a digital platform to tie the transportation system together. Through these strategies, the *2021 Regional Plan* is projected to reduce per capita GHG emissions from cars and light-duty trucks to 20% below 2005 levels by 2035, exceeding the regions state-mandated target of 19% (SANDAG 2021).

3.2.4.2 City of Oceanside

General Plan

The City of Oceanside's General Plan includes various policies related to reducing GHGs (both directly and indirectly) in the Land Use Element (2002), Circulation Element (2012), and Energy Climate Action Element (2019b). See Section 2.2.3.5 above for policies that would improve air quality and also reduce GHGs. Additional policies that would reduce GHGs include, but are not limited to, the following:

Land Use Element

Energy

Policy A. The City shall encourage the design, installation, and use of passive and active solar collection systems.

Policy B. The City shall encourage the use of energy efficient design, structures, materials, and equipment in all land developments or uses.

Circulation Element

Transportation Demand Management

Policy 4.9. The City shall look for opportunities to incorporate TDM programs into their Energy Roadmap that contributes to state and regional goals for saving energy and reducing greenhouse gas emissions.

Energy Climate Action Element

Renewable Energy and Energy Efficiency

Policy ECAE-1a-2. Require that new development supply a portion of its energy demand through renewable sources, to the extent practical and financially feasible.

Policy ECAE-1c-2. Encourage passive solar building design in new development.

Policy ECAE-1d-3. Encourage the use of locally-produced construction materials, including salvaged lumber.

Smart Growth and Multimodal Transportation

Policy ECAE-2a-2. Continue to enhance organics waste recycling opportunities for both the commercial and residential sector in accordance with the City's Zero Waste goals, and State Organics mandates.

Policy ECAE-4a-3. Enforce mandatory water use efficiency measures and State prohibitions on wasteful water use practices.

Policy ECAE-5a-7. Encourage new development to incorporate shade trees, to the extent practical and financially feasible.

City of Oceanside Climate Action Plan

The City adopted its Climate Action Plan (CAP) on May 8, 2019 (City of Oceanside 2019a). The CAP acts as a roadmap to address challenges of climate change within the City and outlines measures the City will take to make progress towards meeting the State's GHG reduction goals. The CAP includes a baseline GHG emissions inventory for 2013, GHG emissions forecasts for 2020, 2030, 2035, 2040, and 2050, local GHG emissions reduction strategies and measures to help the City achieve the statewide targets, and implementation and monitoring mechanisms to ensure the City's measures and targets are achieved. The CAP established local GHG emissions reduction targets for future years as follows:

- by 2020, reduce GHG emissions levels to 5 MT CO₂e per capita;
- by 2030, reduce GHG emissions levels to 4 MT CO₂e per capita;

- by 2040, reduce GHG emissions levels to 3 MT CO₂e per capita; and
- by 2050, reduce GHG emissions levels to 2 MT CO₂e per capita.

The CAP was prepared in accordance with the requirements within CEQA Guidelines Section 15183.5 and is considered a qualified GHG reduction strategy.

City of Oceanside Municipal Code

The City's Municipal Code includes the following measures that help to implement the CAP.

3047 Renewable Energy Facilities

Certain types of new development shall install and maintain renewable energy facilities (e.g. solar photovoltaic systems). Additions to existing development meeting the threshold established in Subsection B shall render such development "solar ready" per the current versions of the California Energy Code and California Green Building Standards Code. In the event that state requirements for renewable energy facilities and solar ready design exceed those outlined in this section, state requirements shall prevail.

- A. As specified below, the following types of development shall install and maintain renewable energy facilities that supply at least 50 percent of forecasted electricity demand:
 - a. Residential projects that include 25 or more units
 - b. Industrial projects larger than 25,000 square feet
 - c. Commercial and institutional projects larger than 12,500 square feet
 - d. Mixed-use development (consisting of residential and commercial uses) larger than 12,500 square feet
 - e. In the event that installing a renewable energy facility is not feasible, applicants can purchase an energy portfolio comprising at least 75% renewable, emissions-free energy.
- B. Additions to all existing development over 1,500 square feet shall be rendered "solar ready," as defined above.

3048 Electric Vehicle Parking and Charging Facilities

Multi-family residential and non-residential development of a certain scale is required to provide preferential parking and charging facilities for electric vehicles. The standards for preferential parking and electric vehicle charging facilities outlined in this section are intended to exceed those established by state law. In the event state standards exceed those outlined in this section, state standards shall apply.

Electric vehicle charging facilities installed in accordance with this section shall comply with Article 625 of the California Electrical Code and subsequent iterations thereof.

Single-family residential developments are subject to the Cal Green Building Code requirements and therefore exempt from the standards outlined in this section.

As specified in Tables 21 and 22, new multi-family residential and nonresidential developments that include five or more parking spaces shall reserve 15 percent of parking spaces for zero-emission vehicles and equip 50 percent of these reserved spaces with Level 2 electric vehicle charging facilities.

The standards outlined in Table 21 shall apply to multi-family residential development featuring common parking facilities, with “common parking facilities” defined as those where parking spaces are not separated from one another by walls or doors but rather assembled in open and shared spaces. Multi-family residential development with non-common parking facilities (e.g., private garages) shall provide at least one 240-volt/16-ampere electrical outlet in each compartmentalized parking area to accommodate “Level 2” electric vehicle charging.

Multi-family development that includes dedicated visitor parking shall provide at least one visitor-serving electric vehicle parking space equipped with charging facilities.

Table 21. Multi-Family Residential Electric Vehicle (EV) Parking Space and Charging Facility Requirements

Total Required Parking Spaces	Required Reserved EV Spaces*	Required Charger Equipped Facilities
5-9	1	0
10-19	2	1
20-29	3	1
30-46	4-6	2-3
47-79	7-11	3-5
80-106	12-15	6-7
107-153	16-22	8-11
154-200	23-30	12-15
201+	15% of Total Required Parking Spaces*	50% of Required EV Parking Spaces

* The minimum number of required EV parking spaces and charging facilities shall be rounded down to the next whole number.

Table 22. Non-Residential Electric Vehicle (EV) Parking Space and Charging Facility Requirements

Total Required Parking Spaces	Required Reserved EV Spaces*	Required Charger Equipped Facilities
5-13	1	0
14-19	2	1
20-33	3-4	2
34-46	5-6	2-3
47-66	7-9	3-4
67-86	10-12	5-6
87-119	13-17	6-8
120+	15% of Total Required Parking Spaces*	50% of Required EV Parking Spaces

* The minimum number of required EV parking spaces and charging facilities shall be rounded down to the next whole number.

3049 Urban Forestry Program

All new development that requires administrative or discretionary review shall comply with the urban forestry standards outlined in Table 23.

Table 23. Minimum Tree Canopy and Permeable Surface Area Requirements

Project Site Area	Minimum Tree Canopy Area	Minimum Permeable Surface Area
1 acre or more	12%	22%
1/3 acre to 1 acre	9%	16%
Less than 1/3 acre	7%	10%

Permeable surfaces should allow water to pass through it, with pores or openings, and may include gravel, pervious concrete, porous asphalt, paving stone, or similar materials.

Tree canopy area shall be measured using the projected maximum growth of selected tree species, based on planting location.

Projects must also provide a Landscape and Tree Canopy Management Plan (LTCMP). The LTCMP shall include information regarding regular, seasonal, and emergency maintenance, trash abatement, irrigation, tree/plant care, tree replacement, insect and disease infestation prevention, integrated pest management, and appropriate response process etc. Projects that do not maintain landscape in a manner consistent with the approved LTCMP shall be subject to code enforcement action.

In the event a project site cannot feasibly accommodate the minimum permeable surface area required, additional tree canopy, in excess of the minimum requirement, can be credited to meet the minimum permeable surface area requirement.

In the event a project site cannot feasibly accommodate the minimum tree canopy area, the project may plant in the public right-of-way (e.g., parkway) adjacent to the project site or on an alternative site within the City, as approved by the Director of the Public Works Department. Should the City establish a Tree Fund or similar in-lieu fee program, projects that cannot meet minimum requirements may contribute to said program as an alternative means of compliance.

3.3 Significance Criteria and Methodology

3.3.1 Thresholds of Significance

California has developed guidelines to address the significance of GHG emissions impacts that are contained in Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.). Appendix G provides that a project would have a significant environmental impact if it would:

1. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The Appendix G thresholds for GHGs do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). Additional guidance regarding assessment of GHGs is discussed below.

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the Project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

CEQA Guidelines

With respect to GHG emissions, the CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or performance-based standards" (14 CCR 15064.4[a]). A lead agency may use a "model or methodology" to estimate greenhouse gas emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change" (14 CCR 15064.4[c]). The CEQA Guidelines provide that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment (14 CCR 15064.4[b]):

1. The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

In addition, the CEQA Guidelines specify that "[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (14 CCR 15064.7[c]).

The extent to which a project increases or decreases GHG emissions in the existing environmental setting should be estimated in accordance with Section 15064.4, *Determining the Significance of Impacts from Greenhouse Gas Emissions*, of the State CEQA Guidelines. The State CEQA Guidelines indicate that when calculating GHG emissions resulting from a project, lead agencies shall make a good-faith effort based on scientific and factual data (Section 15064.4 (a)), and lead agencies have discretion to select the model or methodology deemed most appropriate for enabling decision makers to intelligently assess the project's incremental contribution to climate change (Section 15064.4 (c)).

The State CEQA Guidelines do not indicate an amount of GHG emissions that constitutes a significant impact on the environment. Instead, they authorize the lead agency to consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence (State CEQA Guidelines Sections 15064.4(a) and 15064.7(c)). Several agencies throughout the state have drafted and/or adopted numerical threshold approaches and guidelines for analyzing the significance of project-related GHG emissions; however, no numerical thresholds have been formally adopted by an air district or lead agency for use in the San Diego region.

Governor's Office of Planning and Research Guidance

The Governor's Office of Planning and Research's Technical Advisory, titled Discussion Draft CEQA and Climate Change Advisory (OPR 2018), states the following:

[N]either the CEQA statute nor the CEQA Guidelines prescribe thresholds of significance or particular methodologies for performing an impact analysis. This is left to lead agency judgment and discretion, based upon factual data and guidance from regulatory agencies and other sources where available and applicable. ... Even in the absence of clearly defined thresholds for GHG emissions, such emissions must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact.

Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice." Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

Approaches to Determining Significance

The significance of the project-related GHG emissions can be determined by evaluating the project's compliance with regulations or requirements adopted to implement statewide, regional, or local plans for the reduction or mitigation of GHG emissions. The state's 2030 target (reduce GHG emissions to 40% below 1990 levels by 2030) has been codified in law through SB 32 and the 2017 Scoping Plan (CARB 2017a). Therefore, 2030 marks the next statutory statewide milestone target applicable to the project.

The City's 2019 CAP is a qualified GHG emissions reduction plan in accordance with State CEQA Guidelines Section 15183.5. CEQA Guidelines 15183.5(a) states that Lead Agencies may analyze and mitigate the significant effects of GHG emissions at a programmatic level, such as in a general plan, a long-range development plan, or a separate plan to reduce GHG emissions. Later project-specific environmental documents may tier from and/or incorporate by reference the existing programmatic review. 15183.5(b) states that public agencies may choose to analyze and mitigate significant GHG emissions in a plan for the reduction of GHG emissions. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of a CAP.

The City's CAP seeks to align with state efforts to reduce GHG emissions while balancing a variety of community interests: e.g., quality of life, economic development, and social equity. The City of Oceanside's 2019 CAP quantified baseline and projected future GHG emissions from activities within the City. State GHG reduction efforts were first initiated by EO S-3-05 in 2005, which established a 2050 emissions target to stabilize the climate (CARB 2008). EO S-3-05 also established a 2020 GHG emissions target goal, which was later codified by the State Legislature as AB 32. EO B-30-15 then established an additional interim 2030 GHG emissions target, which was also codified by the State Legislature. Proposed City-specific measures and strategies were developed to reduce GHG emissions in accordance with 2020 and 2030 targets codified by the State Legislature. On a per-capita basis, the 2020 GHG emissions target requires that emissions be reduced to "about 10 tons per person by 2020" (CARB 2008) and the subsequent targets require that emissions be reduced to "no more than 6 MT CO_{2e} per capita by 2030 and no more than 2 MT CO_{2e} per capita by 2050" (CARB 2017). The City's CAP established GHG reduction targets for 2030 that are more rigorous than the State's 6 MT CO_{2e} per capita goal. The City's goal is to achieve GHG emission levels of 4 MT CO_{2e} per capita by 2030 and 3.0 MT CO_{2e} per capita by 2040. A 2050 target of 2.0 MT CO_{2e} per capita is established for the City consistent with recommendations of the 2017 Scoping Plan and international agreements, such as the "Under 2 MOU," which requires that all "signatories agree to reduce their GHG emissions to two metric tons CO_{2e} per capita by 2050." This is the most commonly agreed upon 2050 target and directly relates to the long-term target of EO-S-05.

As discussed in the CAP, to ensure the City remains on track to achieve the long-term reduction goals of the State, the City has implemented GHG reduction measures proactively. The CAP measures outline how the City will reduce its near-term GHG emissions and establish infrastructure to support continued reductions beyond 2030. The City is already projected to meet state-aligned per capita near-term emissions targets (2020 and 2030), and as such, reduction measures in the CAP (Chapter 3 of the CAP) were selected based on their ability to achieve long-term GHG emission reductions. Measures were focused on energy, water, solid waste, transportation and land use, and agriculture and forestry. Although the City's CAP predates CARB's 2022 Scoping Plan, the City's measures are consistent with CARB's recommendations for Local Actions focused on transportation electrification, vehicle miles traveled (VMT) reduction, and building decarbonization (CARB 2022e).

GHG emissions are by nature a cumulative impact, therefore, project's may rely on the City's CAP to determine a project's impact on a project-level/cumulative-level basis. Chapter 4 Implementation, of the City's CAP outlines how the CAP reduction measures will be implemented and establishes a mechanism for individual development project's to evaluate their consistency with the CAP through completion of a checklist.

The City of Oceanside's CAP relies on a screening threshold based on land use size and a CAP Consistency Checklist to determine whether a project's emissions would be consistent with GHG emissions estimated within the City's CAP. Consistent with the California Air Pollution Control Officers Association (CAPCOA) CEQA and Climate Change document (CAPCOA 2008), the City has established a screening threshold of significance for GHG emissions impacts: 900 MT CO_{2e} annually, with construction-related emissions amortized over 20 years. Specifically, the City has determined that new development projects emitting less than 900 MT CO_{2e} annual GHG would not contribute considerably to cumulative climate change impacts, and therefore do not need to demonstrate consistency with the CAP strategies, and would be determined to not conflict with the CAP. The 900 MT CO_{2e} screening threshold represents a market capture rate of 90% of all development projects (CAPCOA 2008). The objective of the bright-linescreening is to set the emissions low enough to capture a substantial fraction of future residential and non-residential development that will be constructed to accommodate future statewide population and job growth, while setting the emission threshold high enough to exclude small development projects that will contribute a relatively

small fraction of the cumulative statewide GHG emissions (CAPCOA 2008). The 90% capture rate of new development establishes a strong basis for demonstrating that cumulative reductions are being achieved across the state. Projects greater than 900 MT CO₂e would be required to show CAP Checklist consistency, which can be used to determine that the project would be consistent with the CAP. Essentially, to demonstrate that a project would comply with the CAP, requires a two-step process: the first step is a screening-level bright line screening which if exceeded, would require the second step, which is a CAP measures consistency analysis.

CEQA Guidelines Section 15183.5(2) states that an environmental document that relies on a GHG reduction plan for a cumulative impact analysis must identify those requirements specified in the plan that apply to the project, and if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project. In accordance with Section 15183.5(2) of the CEQA Checklist, the CAP Checklist provides for streamlined review of projects subject to environmental review, offering an alternative to project-specific analysis of GHG emissions impacts. The Checklist is available to projects that meet locational requirements that further the City's efforts to facilitate housing and employment growth in walkable, transit-served areas, as well as projects that either 1) conform to current land use and zoning standards or 2) involve uses that would generate less GHG emissions than those allowed under current standards.

As discussed above under Section 3.3.1 Thresholds of Significance, GHG emissions are recognized exclusively as a cumulative impact (CAPCOA 2008). The CAP Consistency Checklist is used to determine project-level significance in accordance with CEQA Guidelines Section 15183.5; the measures in the CAP Consistency Checklist identify the specific requirements that must be implemented by development projects on a city-wide basis to achieve the City's identified reduction targets. The CAP addresses the cumulative impact of GHG emissions on a city-wide basis and a project's compliance with the CAP supports the City's GHG emission reduction goals.

In accordance with Section 15064.4 of the State CEQA Guidelines, GHG emissions resulting from construction and operation of the Project were quantitatively estimated. The potential impacts from project-related GHG emissions were assessed based on the total increase above the existing environmental setting, which is undeveloped, vacant land. The GHG emissions associated with implementation of the project were estimated using industry standard and accepted software tools, techniques, and emissions factors. The significance of the project's GHG impacts is based on the project's compliance with the City's CAP measures.

3.3.2 Approach and Methodology

3.3.2.1 Construction

Construction of the Project would result in emissions of GHG emissions primarily associated with use of off-road construction equipment, on-road haul, and vendor (material delivery) truck trips, and worker vehicle trips. As discussed previously in Section 2.3.2, emissions from the construction phase of project components were estimated using the CalEEMod Version 2022. Per preliminary project details, it is assumed that construction of the project would begin in January 2026 and would be completed by December 2027. A detailed depiction of the construction schedule—including information regarding phasing, equipment used during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Section 2.3.2. above, and complete details of the emissions calculations are provided in Appendix A. Per City Guidance, construction-related GHG emissions were amortized over 20 years and added to operational emissions.

3.3.2.2 Operation

Operation of the project would generate GHG emissions from mobile sources, area sources (landscape maintenance equipment), energy use, water use and wastewater generation, solid waste, and refrigerants. As with project construction, CalEEMod Version 2022 was used to estimate potential project-generated operational GHG emissions based on project land uses. It was assumed that the project would be fully operational following the completion of construction, which would occur in 2028.

Mobile Sources (Motor Vehicles)

All details for criteria air pollutants discussed in Section 2.3.2 (Approach and Methodology) of Section 2 Air Quality, are also applicable for the estimation of operational-related GHG emissions are also applicable for the estimation of operational mobile source GHG emissions. 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 that are primarily used for noncommercial personal transportation in the state. In addition, the NHTSA 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 using the CalEEMod emission factors for motor vehicles in 2028 to the extent it was captured in CalEEMod 2022, which is based on the Emission FACtor (EMFAC) 2021 model.

Area

The area source category calculates direct sources of GHG emissions located at the project site including hearths and landscape maintenance equipment. This source category does not include the emissions associated with natural gas usage in space heating and water heating as these are calculated in the building energy use module of CalEEMod. The project includes a PDF-AQ-2 that prohibits natural gas and wood-burning fireplaces in residential units.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, roto tillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. The emissions associated from landscape equipment use were estimated using CalEEMod defaults. For San Diego County, CalEEMod assumes that landscaping equipment would operate 180 days per year. To be conservative, emissions were estimated assuming that landscape maintenance equipment was powered by gasoline or diesel fuel, and not electrified.

Energy

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage (non-hearth). CalEEMod default values for energy consumption were applied to each land use. The energy use from residential land uses is calculated in CalEEMod based on the Residential Appliance Saturation Survey. Default electricity and natural gas consumption is based on 2019 consumption estimates using the CEC's 2018–2030 Uncalibrated Commercial Sector Forecast and 2019 Residential Appliance Saturation Survey (CAPCOA 2022)

Annual natural gas and electricity emissions were estimated in CalEEMod using default values for emissions factors for San Diego Gas and Electric (SDG&E), which would be the energy source provider for the Project. The project includes PDF-GHG-1 that includes solar photovoltaics on each building and the project would comply with the City's Municipal Code 3047 that requires the inclusion of renewable energy facilities that meet 50% of forecasted electricity demand or the purchase of an energy portfolio comprising at least 75% renewable, emissions-free energy.

Water and Wastewater

Indirect GHG emissions result from the production of electricity used to convey, treat and distribute water and wastewater. The amount of electricity required to convey, treat and distribute water depends on the volume of water as well as the sources of the water. GHG emissions associated with project water consumption were calculated using CalEEMod using default parameters.

Solid Waste

The project would generate solid waste. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the project were calculated by CalEEMod using default parameters.

Refrigerants

Refrigerants are substances used in equipment for air conditioning (A/C) and refrigeration. Most of the refrigerants used today are hydrofluorocarbons or blends thereof, which can have high GWP values. All equipment that uses refrigerants has a charge size (i.e., quantity of refrigerant the equipment contains), and an operational refrigerant leak rate, and each refrigerant has a GWP that is specific to that refrigerant. CalEEMod default values were applied, which quantify refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime, and then derives average annual emissions from the lifetime estimate (CAPCOA 2022).

For additional details see Appendix A.

3.4 Impact Analysis

This section evaluates the GHG emissions impacts associated with the project. The significance criteria described in Section 3.3.1, Thresholds of Significance, were used to evaluate impacts associated with the construction and operation of the project.

3.4.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
and
Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

3.4.1.1 Analysis

The City of Oceanside’s CAP was adopted in May 2019 to assist the City in reducing GHG emissions to 4 MT CO₂e per capita by 2030, and 2 MT CO₂e per capita by 2050 to align with the state’s targets established by EOs B-30-15 and S-3-05, respectively. According to the City’s CAP, new discretionary development projects subject to CEQA review that emit less than 900 MT CO₂e annually would not contribute considerably to cumulative climate change impacts, and therefore, would be considered consistent with the CAP and associated emissions projections. Projects that exceed the 900 MT CO₂e are evaluated to determine if the CAP Consistency Checklist is applicable. In addition, pursuant to the City’s May 2023 Policy Directive, a project’s per service population emissions shall be determined and evaluated against the City’s targets based on when a project is to be implemented to ensure that the project would comply with the CAP. As such, the evaluation presented below assess the project’s consistency with the CAP through two tests: (1) CAP Consistency Checklist, and (2) per service population efficiency metric.

Project-generated GHG emissions were estimated per the methodology described in Section 3.3.2. and are discussed for construction and operation and are discussed for construction and operation below. Quantification of GHG emissions is provided pursuant to CEQA Guidelines 15064.4(c) as the determination of significance is based on the CAP Consistency Checklist.

3.4.1.2 Project GHG Emissions

Construction

Table 24 shows the estimated annual GHG construction emissions associated with the Project. Additional information about methodology and approach are provided above in Section 3.3.2. Complete details of the construction emissions calculations are provided in Appendix A.

Table 24. Estimated Annual Construction GHG Emissions

	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
Year	Metric Tons				
2026	984.18	0.04	0.04	0.41	997.57
2027	332.53	0.01	0.01	0.15	336.18
Total	1,316.71	0.06	0.05	0.56	1,333.76
Amortized Emissions (20 years)					66.69

Source: Appendix A

Notes: GHG = greenhouse gas; CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; R= refrigerant; CO₂e = carbon dioxide equivalent.

See Appendix A for complete results. <0.01 = reported value is less than 0.01.

As shown in Table 24, the estimated total GHG emissions from construction of the project would be 1,334 MT CO₂e. When amortized over 20 years, the estimated annual GHG emissions from construction of the project would be approximately 67 MT CO₂e per year.

Operation

Table 25 shows the estimated annual GHG operational emissions -associated with incorporation of PDF-GHG-1 and compliance with the City's Municipal Code which requires the provision of solar power to offset 50% of the project's energy demand.

Table 25. Summary of Estimated Annual GHG Emissions

Emissions Source	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
	Metric Tons				
Mobile	1,149.82	0.06	0.05	1.41	1,167.57
Area	204.09	0.00	0.00	N/A	204.34
Energy	140.61	0.02	0.00	N/A	141.55
Water	2.13	0.15	0.00	N/A	6.82
Waste	23.80	2.38	0.00	N/A	83.27
Refrigerants	N/A	N/A	N/A	0.32	0.32
Total Operational Emissions					1,603.87
<i>Amortized Construction Emissions (20 years)</i>					<i>66.69</i>
Total Operational Emissions with Amortized Construction					1,670.55
<i>Screening Threshold</i>					<i>900</i>
Exceeds Threshold?					Yes

Source: See Appendix A for complete results.

Notes: GHG = greenhouse gas; N/A = not applicable; CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; R= refrigerant CO₂e = carbon dioxide equivalent. <0.01 = reported value is less than 0.01.

Includes incorporation of PDF-GHG-1.

As discussed above, total annual operational emissions were combined with amortized (20 years) construction emissions and compared to the recommended 900 MT CO₂e screening threshold. As shown in Table 25, implementation of the project would result in approximately 1,671 MT CO₂e per year including amortized construction emissions, which would exceed the City's bright-line screening of 900 MT CO₂e per year.

Per City guidance, new development projects that emit more than 900 MT CO₂e annually could have a considerable contribution to cumulative climate change impacts. Given that project-generated operational emissions in 2028 plus amortized project construction emissions are estimated to exceed this screening threshold, the project is required to demonstrate consistency with the CAP Consistency Checklist to ensure that the specific emissions targets identified in the City's CAP can be achieved and impacts will be less than significant.

3.4.1.3 Climate Action Plan Consistency Checklist

Projects that meet one or more of the following locational criteria are eligible for using the CAP Consistency Checklist:

1. The project site is located within a designated Smart Growth Opportunity Area.
2. The project site is located with $\frac{1}{4}$ mile of a priority TOD corridor, as identified in the City's Smart and Sustainable Corridors Plan.

Items 1 and 2 pertain to the City's focus on where development will occur. The City seeks to accommodate future housing and job growth primarily through infill and redevelopment within already urbanized areas. Specifically, the City seeks to facilitate new residential and employment-oriented development within SANDAG-designated Smart Growth Opportunity Areas and prior corridors (i.e., Coast Hwy, Mission Avenue, Oceanside Blvd, Vista Way).

3. The project is consistent with current land use and zoning designations.

Item 3 ensures that projected growth and development along with GHG emissions would be consistent with projections included in the CAP.

4. The project requires amendment of current land use and zoning designations. As demonstrated through a detailed analysis a) consistent with the precedent in the surrounding zoning district and b) subject to third party expert review, the proposed land uses would generate less GHG emissions than those associated with uses allowed under current land use and zoning designations.

Similar to Item 3, this measure allows for projects that require land use changes to use the CAP checklist if the projected GHG emissions would be comparable or less than the existing land use designation.

In response to Item 1, the project site is located within a Smart Growth Opportunity Area. Specifically, it is located in smart growth area OC-6 (City of Oceanside Housing Element, Figure 6, February 2022). The project would meet locational criteria 1.

In response to Item 2, the project site is located within $\frac{1}{4}$ mile of a TOD corridor, consisting of Oceanside Boulevard. The project would meet locational criteria 2.

In response to Item 3, the project is a residential development on a property designated for residential use and, on that basis, is consistent with the current land use and zoning designation. The project would meet criteria 3.

In response to Item 4, the project does not require a general plan amendment or rezone.

As discussed previously, CEQA Guidelines Section 15183.5(2) states that an environmental document that relies on a GHG reduction plan for a cumulative impact analysis must identify those requirements specified in the plan that apply to the project, and if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project. In accordance with Section 15183.5(2) of the CEQA Guidelines, the CAP Checklist provides for streamlined review of projects subject to environmental review, offering an alternative to project-specific analysis of GHG emissions impacts.

Table 26 includes the CAP Checklist items and the related project consistency analysis.

Table 26. Climate Action Plan Consistency Checklist and Project Consistency

Check List Item	Project Consistency
1. On-Site Renewable Energy Supply. If the project meets one or more of the thresholds outlined in Section 3047 of the City's Zoning Ordinance, will at least 50 percent of the estimated electricity demand be met with on-site renewable emissions-free energy supply (e.g., solar photovoltaic facilities)?	Consistent. The project is a residential project that includes more than 25 dwelling units and is therefore required to comply with the on-site renewable energy supply provisions of the checklist or the purchase of an energy portfolio that is comprised of at least 75% renewable, emissions-free energy. The proposed project includes roof-top solar PV on each building in accordance with PDF-GHG-1.
2. Electric Vehicle Charging Facilities. If the project involves new development that requires at least five (5) parking spaces, will the project comply with the requirements of Section 3048 of the City's Zoning Ordinance?	Consistent. The proposed project includes a total of 141 podium parking spaces and 194 surface parking spaces for residences and guests and is therefore required to comply with the requirements of Section 3048 of the City's Zoning Ordinance. PDF-GHG-1 requires the provision of electric vehicle parking and charging. Per Section 3048, the project will reserve 15% of parking spaces (50) for Electric Vehicles (EV) and provide charging facilities in 50% of the required EV parking spaces (25).
3. Recycled Water Infrastructure. Does the City's Water Utilities Department require that the project install infrastructure to provide for recycled water service?	Not Applicable. The project is not required to use recycled water.
4. Transportation Demand Management (TDM). Per Section 3050 of the City's Zoning Ordinance, does the proposed project expected to generate at least 100 daily employee commute trips, necessitating the preparation and implementation of a TDM Plan?	Not Applicable. The project is a residential project and would not generate more than 100 daily employee commute trips.
5. Urban Forestry. Will the project comply with the minimum tree canopy and permeable surface area requirements outlined in Section 3049 of the City's Zoning Ordinance?	Consistent. The proposed project involves development of greater than a 1-acre area, therefore it will comply with the provision of a minimum of 12% tree canopy area and 22% of permeable surface area as outlined in the requirements outlined in Section 3049 of the City's Zoning Ordinance.

Source: Appendix C, CAP Consistency Checklist

As shown in Table 26, the proposed project is consistent with the CAP Consistency Checklist adopted by the City to ensure that the emission targets identified in the CAP are achieved. Therefore, the proposed project is not expected to generate GHG emissions that may have a significant impact on the environment, and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs and the impact would be **less than significant**.

3.4.1.4 Consistency with Senate Bill 32, Assembly Bill 1279, Executive Order S-3-05, and Assembly Bill 1279

EO S-3-05 identified the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050. SB 32 establishes a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030. AB 1279 establishes a policy of the state to achieve net zero GHG emissions no later than 2045 and for statewide anthropogenic GHG emissions to be reduced to at least 85% below 1990 levels by 2045.

Each Scoping Plan builds upon the successful framework established by the initial Scoping Plan and subsequent updates, while also identifying new, technologically feasible, and cost-effective strategies to ensure that California meets increasingly stringent 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. The Scoping Plan updates have continued to express optimism in meeting future year targets of 2050 and 2030, as evaluated in the 2014 and 2017 Scoping Plans (respectively), and most recently, the 2045 goal addressed in the 2022 Scoping Plan under EO B-55-18, which AB 1279 codified and expanded on.

While there are no established protocols or thresholds of significance for that future year analysis, CARB forecasted in the 2014 Scoping Plan that compliance with the current Scoping Plan would put the state on a trajectory of meeting the long-term 2050 GHG goals, although the specific path to compliance was unknown at the time (CARB 2014). The 2017 Scoping Plan outlined a strategy to achieve the 2030 GHG reduction target. The proposed scenario in the 2022 Scoping Plan lays out a path not just to carbon neutrality by 2045, but also to the 2030 GHG emissions reduction target (CARB 2022). The modeling indicates that, if the plan described in the proposed scenario is fully implemented, and done so on schedule, the state is on track to reduce its emissions to 260 MMT CO₂e by 2030 (CARB 2022).

The City is on track to meet state-aligned emissions reduction targets for 2020 and 2030 without additional emissions reduction measures (Oceanside 2019). However, the City understands that meeting long-term reduction targets requires aggressive action. As such, the City has developed near-term local GHG emissions targets more aggressive than State targets that put the City on a trajectory consistent with the State's 2050 GHG emissions targets, which represent the level necessary to stabilize the climate in the latter part of the 21st century (Oceanside 2019). Regarding, AB 1279, it is important to note that the state's carbon neutrality goal does not preclude any individual project from emitting GHG emissions. AB 1279 codifies EO B-55-18, however, its enactment was linked to the concurrent enactment of SB 905, which requires CARB to create a Carbon Capture, Removal, Utilization, and Storage Program that, fundamentally, will sequester carbon emitted by other projects. Therefore, the state's carbon neutrality goal does not preclude all individual projects from emitting GHG emissions.

As discussed above, the project would be consistent with the CAP and other applicable plans and, therefore, would be consistent with state GHG reduction goals and progress towards achieving carbon neutrality.

3.4.1.5 Consistency with SANDAG RTP/SCS

At the regional level, the SANDAG's RTP/SCS has been adopted for the purpose of reducing GHG emissions attributable to passenger vehicles in the San Diego region. In October 2015, SANDAG adopted its Regional Plan, which was subsequently updated in 2021. The RTP/SCS is not directly applicable to the project because the underlying purpose of the RTP/SCS is to provide direction and guidance on future regional growth (i.e., the location of new residential and nonresidential land uses) and transportation patterns throughout the City and greater San Diego County, as stipulated under Senate Bill 375. CARB has recognized that the approved RTP/SCS is consistent with Senate Bill 375. The SANDAG Regional Plan is generally consistent with the local government plans. Since the Project is within the scope of development that was anticipated in the General Plan, it would not result in growth that would conflict with the Regional Plan.

As noted above, the proposed project would not generate GHG emissions that have a significant impact on the environment because it is determined to be consistent with the City's CAP, which is the most applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs (see Table 26). Further, the project proposes residential development immediately adjacent to the Sprinter station in a SANDAG designated Smart Growth Opportunity Area. Therefore, the proposed project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases and the impact would be **less than significant**.

3.4.1.6 Conclusion

The project would exceed the City's 900 MT CO₂e screening threshold, which indicates that additional analysis is required to determine if the project would have a cumulatively significant contribution to GHGs. The City's additional required analysis includes evaluating the project against the Climate Action Plan. As shown in the preceding analysis, the project would be consistent with the City's Climate Action Plan. Accordingly, the project would not generate GHG emissions, either directly or indirectly, that would have a significant impact on the environment and the project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. The project's GHG impact would be **less than significant**.

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4 Energy

4.1 Environmental Setting

The San Diego region, like many other urban areas, faces challenges related to its energy supply and future growth. The region relies on a combination of sources for electricity, including natural gas, renewables, and imported power. California, including San Diego, had been making significant strides in increasing the share of renewable energy in its power mix, with a focus on solar and wind energy.

4.1.1 Electricity

According to the U.S. Energy Information Administration (EIA), California used approximately 247,249,865 megawatt-hours of electricity in 2021 (EIA 2022a). Electricity usage in California for different land uses varies substantially by the types of uses in a building, type of construction materials used in a building, and the efficiency of all electricity-consuming devices within a building. Due to the state's energy efficiency building standards and efficiency and conservation programs, California's electricity use per capita in the residential and commercial sector is lower than any other state except Hawaii (EIA 2023a).

SDG&E provides electricity to the project. SDG&E supplies power to 3.6 million people, through 1.4 million electric meters, and across a 4,100 square-mile service area that includes San Diego County and southern Orange County (SDG&E 2021). According to the CEC, demand forecasts anticipate that approximately 22.7 billion kWh of electricity will be used in SDG&E's service area in 2024 (CEC 2023a).

Within San Diego County, annual electricity use in 2022 was approximately 20.2 billion kWh per year (CEC 2023b). SDG&E receives electric power from a variety of sources. According to the 2022 SDG&E Power Content Label, eligible renewable energy accounts for 44.5% of SDG&E's overall energy resources, with biomass and biowaste at 2.9%, solar at 28.0%, wind power at 13.9%, unspecified power⁶ 0.8%, and natural gas at 54.4%. (CEC 2023c).

4.1.1.1 Natural Gas

Natural gas is a combustible mixture of hydrocarbon compounds (primarily methane) used as a fuel source. The majority of the natural gas consumed in California is obtained from sources located outside the state and delivered through high-pressure transmission pipelines. Natural gas provides almost one-third of the state's total energy requirements and is used in electricity generation, space heating, cooking, water heating, industrial processes, and as a transportation fuel. Natural gas is measured in terms of cubic feet or therms.

According to the EIA, California used approximately 2,092,612 million cubic feet of natural gas in 2021 (EIA 2023d). Most California's natural gas customers are residential and small commercial customers (core customers). These customers account for approximately 35% of the natural gas delivered by California utilities (CPUC 2021). Large consumers, such as electric generators and industrial customers (noncore customers), account for approximately 65% of the natural gas delivered by California utilities (CPUC 2021). California Public Utilities Commission (CPUC) regulates California natural gas rates and natural gas services, including in-state transportation over transmission

⁶ Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.

and distribution pipeline systems, storage, procurement, metering, and billing. Most of the natural gas used in California comes from out-of-state natural gas basins. Biogas (e.g., from wastewater treatment facilities or dairy farms) is just beginning to be delivered into the gas utility pipeline systems; however, the State has adopted regulations requiring its development to reduce statewide emissions of methane by 40% below 2013 levels by 2030 (CPUC 2022).

SDG&E provides San Diego County and southern Orange County with natural gas service, encompassing approximately 4,100 square miles. Within San Diego County, gas consumption in 2022 was approximately 522 million therms, with 281 million therms for residential use and 241 million therms for non-residential use (CEC 2023d).

4.1.2 Petroleum

According to the EIA, California used approximately 605 million barrels of petroleum in 2021, with the majority (511 million barrels) used for the transportation sector (EIA 2023c). There are 42 U.S. gallons in a barrel, so this equates to a total daily use of approximately 14.4 million gallons of petroleum among all sectors and 12.2 million gallons for the transportation sector. Petroleum usage in California includes petroleum products such as motor gasoline, distillate fuel, liquefied petroleum gases, and jet fuel. 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 VMT. Market forces have driven the price of petroleum products steadily upward over time, and technological advances have made use of other energy resources or alternative transportation modes increasingly feasible.

4.2 Regulatory Setting

4.2.1 Federal

4.2.1.1 Federal Energy Policy and Conservation Act and CAFE Standards

In 1975, Congress enacted the federal Energy Policy and Conservation Act, which established the first fuel economy standards, known as the Corporate Average Fuel Economy (CAFE) standards, for on-road motor vehicles in the United States. Pursuant to the act, the National Highway Traffic Safety Administration (NHTSA) is responsible for establishing additional vehicle standards. In 2012, new CAFE standards for passenger cars and light trucks were approved for model years 2017 through 2021 (77 FR 62624-63200). Fuel economy is determined based on each manufacturer's average fuel economy for the fleet of vehicles available for sale in the United States.

4.2.1.2 Energy Policy Act of 1992 and 2005

The Energy Policy Act of 1992 was passed to reduce the country's dependence on foreign petroleum and improve air quality. The act includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. The act requires certain federal, state, and local government and private fleets to purchase a percentage of light-duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are also included in the act. Federal tax deductions are allowed for businesses and individuals to cover the incremental cost of AFVs. The Energy Policy Act also requires states to consider a variety of

incentive programs to help promote AFVs. The Energy Policy Act provides renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for clean renewable energy and rural community electrification; and establishes a federal purchase requirement for renewable energy.

In January 2005, the new Energy Policy Act was signed into law. It addresses energy production in the United States, including energy efficiency, renewable energy, oil and gas, coal, Tribal energy, nuclear matters and security, vehicles and motor fuels, including ethanol, hydrogen, electricity, energy tax incentives, hydropower and geothermal energy, and climate change technology. The Energy Policy Act provides loan guarantees for entities that develop or use innovative technologies that avoid the by-production of GHGs. Another provision of the Energy Policy Act is the Renewable Fuel Standard (RFS), which increases the amount of biofuel that must be mixed with gasoline sold in the United States.

4.2.1.3 Energy Independence and Security Act of 2007

On December 19, 2007, the Energy Independence and Security Act of 2007 (EISA) was signed into law. In addition to setting increased CAFE standards for motor vehicles, the EISA facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory RFS that requires fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.
- Requiring approximately 25% greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200% greater efficiency for light bulbs, or similar energy savings, by 2020.
- While superseded by the EPA and NHTSA actions described previously, establishing miles per gallon targets for cars and light trucks and directing the NHTSA to establish a fuel economy program for medium-and heavy-duty trucks and create a separate fuel economy standard for trucks.

This federal legislation requires ever-increasing levels of renewable fuels (the RFS) to replace petroleum (EPA 2023d). EPA is responsible for developing and implementing regulations to ensure that transportation fuel sold in the United States contains at least a minimum volume of renewable fuel.

The RFS program was created under the Energy Policy Act and established the first renewable fuel volume mandate in the United States. As required under the Energy Policy Act, the original RFS program required 7.5 billion gallons of renewable fuel to be blended into gasoline by 2012. Under the EISA, the RFS program was expanded in several ways that laid the foundation for achieving significant reductions in GHG emissions from the use of renewable fuels, reducing imported petroleum, and encouraging the development and expansion of the renewable fuels sector in the United States. The updated program is referred to as “RFS2” and includes the following:

- The EISA expanded the RFS program to include diesel, in addition to gasoline.
- The EISA increased the volume of renewable fuel required to be blended into transportation fuel from 9 billion gallons in 2008 to 36 billion gallons by 2022.

- The EISA established new categories of renewable fuel and set separate volume requirements for each one.
- The EISA required EPA to apply lifecycle GHG performance threshold standards to ensure that each category of renewable fuel emits fewer GHGs than the petroleum fuel it replaces.

Additional provisions of the EISA address energy savings in government and public institutions, research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green (environmentally beneficial) jobs.

4.2.1.4 Intermodal Surface Transportation Efficiency Act of 1991

The Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 promoted the development of intermodal transportation systems to maximize mobility and address national and local interests in air quality and energy. ISTEA contained factors for metropolitan planning organizations to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted policies defining the social, economic, energy, and environmental values guiding transportation decisions.

4.2.1.5 Transportation Equity Act for the 21st Century

The Transportation Equity Act for the 21st Century was signed into law in 1998 and builds on the initiatives established in the ISTEA legislation (previously discussed). The Transportation Equity Act authorizes highway, highway safety, transit, and other efficient surface transportation programs. The act continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of transportation decisions. The Transportation Equity Act also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of intelligent transportation systems to help improve operations and management of transportation systems and vehicle safety.

4.2.2 State

Many of the regulations adopted to reduce GHG emissions also serve to reduce energy use. Refer to Section 3.2.3 for additional details on the following regulations:

- Assembly Bill 32 and Senate Bill 32
- Senate Bills 1078 (2002), 107 (2006), X1-2 (2011), 350 (2015), 100 (2018), SB 1020 (2022)
- California Building Standards
- State Vehicle Standards including the Advanced Clean Car Program and Advanced Clean Truck Program

Warren-Alquist Act

The California legislature passed the Warren-Alquist Act in 1974. The Warren-Alquist Act created the CEC. The legislation also incorporated the following three key provisions designed to address the demand side of the energy equation:

- The act directed the CEC to formulate and adopt the nation's first energy conservation standards for buildings constructed and appliances sold in California.

- The act removed the responsibility of electricity demand forecasting from the utilities, which had a financial interest in high-demand projections, and transferred it to a more impartial CEC.
- The CEC was directed to embark on an ambitious research and development program, with a particular focus on fostering what were characterized as non-conventional energy sources.

State of California Energy Action Plan

CEC and CPUC approved the first State of California Energy Action Plan in 2003. The Energy Action Plan established shared goals and specific actions to support that adequate, reliable, and reasonably priced electrical power and natural gas supplies are provided, and identified policies, strategies, and actions that are cost effective and environmentally sound for California's consumers and taxpayers. In 2005, CEC and CPUC adopted a second Energy Action Plan to reflect various policy changes and actions of the preceding 2 years.

At the beginning of 2008, CEC and CPUC determined that it was not necessary or productive to prepare a new Energy Action Plan. This determination was based, in part, on a finding that the state's energy policies have been significantly influenced by the passage of AB 32, the California Global Warming Solutions Act of 2006 (discussed below). Rather than produce a new Energy Action Plan, CEC and CPUC prepared an update that examines the state's ongoing actions in the context of global climate change.

Assembly Bill 1007 (2005)

AB 1007 (2005) required the CEC to prepare a statewide plan to increase the use of alternative fuels in California (State Alternative Fuels Plan). The CEC prepared the plan in partnership with the CARB and in consultation with other state agencies, plus federal and local agencies. The State Alternative Fuels Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality.

Integrated Energy Policy Report

The CEC is responsible for preparing integrated energy policy reports that identify emerging trends related to energy supply, demand, and conservation; public health and safety; and maintenance of a healthy economy. The CEC's 2023 Integrated Energy Policy Report discusses the state's policy goals of decarbonizing buildings, ensuring energy reliability, decarbonizing the state's gas system, the state's energy demand forecast, and quantifying the benefits of the clean transportation program (CEC 2023e). SB 100 calls for California's electricity system to become 100% zero-carbon by 2045. CEC, CPUC, and CARB are working together to identify pathways to deeply decarbonize the state's electricity system in response to SB 100. The aim is to leverage California's clean electricity system to decarbonize, or remove carbon from, other portions of the state's energy system. Over time these policies and trends would serve to beneficially reduce the Project's GHG emissions profile and energy consumption as they are implemented.

State Vehicle Standards

In response to the transportation sector accounting for more than half of California's CO₂ emissions, AB 1493 was enacted in 2002. AB 1493 required CARB to set GHG emissions standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles whose primary use is noncommercial personal transportation in the state. The bill required that CARB set GHG emissions standards for motor vehicles

manufactured in 2009 and all subsequent model years. The 2009–2012 standards resulted in a reduction in approximately 22% of GHG emissions compared to emissions from the 2002 fleet, and the 2013–2016 standards resulted in a reduction of approximately 30%.

In 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global-warming gases with requirements for greater numbers of zero-emissions vehicles into a single package of standards called Advanced Clean Cars, detailed below. By 2025, when the rules would be fully implemented, new automobiles would emit 34% fewer global-warming gases and 75% fewer smog-forming emissions.

Although the focus of the state’s vehicle standards is on the reduction of air pollutants and GHG emissions, one co-benefit of implementation of these standards is a reduced demand for petroleum-based fuels.

4.2.3 Local

4.2.3.1 SDG&E Individual Integrated Resource Plan

SDG&E’s Conforming Portfolio identifies a need for approximately 700 gigawatt-hours of incremental renewable power in addition to the assumed increases in energy efficiency and behind-the-meter solar, to meet the 2030 planning target (approximately 4% of the total energy in the portfolio) (SDG&E 2021). SDG&E’s Conforming Portfolio demonstrates that the utility has reduced its GHG emissions in the early years of the planning period, reflecting its current position in relation to its RPS targets—in 2018, approximately 45% of its energy mix came from delivering renewable resources (compared to an RPS requirement of 29%), it has aggressively adopted energy storage, and does not use coal resources. SDG&E is fully compliant with RPS and long-term contracting requirements. SDG&E continues its efforts to meet resource-specific renewable procurement mandates, as required, but does not expect to procure additional resources for RPS compliance purposes until after 2030.

4.2.3.2 City of Oceanside

General Plan

The City of Oceanside’s General Plan includes various policies related to reducing energy (both directly and indirectly) in the Land Use Element (2002) and the Energy Climate Action Element (ECAE) (2019b). Refer to Section 3.2.4 for additional details.

City of Oceanside Climate Action Plan

The City adopted a CAP in May of 2019, which seeks to align with state efforts to reduce GHG emissions while balancing a variety of community interests such as quality of life, economic development, and social equity. The CAP mirrors what the ECAE themes and goals related to energy efficiency and renewable energy, smart growth and multimodal transportation, zero waste, water conservation, urban greening, local agriculture, and sustainable consumption.

4.3 Significance Criteria and Methodology

4.3.1 Thresholds of Significance

The significance criteria used to evaluate the project impacts to energy are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to energy would occur if the project would:

- 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.
- C. Result in cumulatively considerable impacts.

Appendix F: Energy Conservation of the CEQA Guidelines provides the following six criteria to evaluate energy impacts:

- 1. The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction, operation, maintenance and/or removal. If appropriate, the energy intensiveness of materials maybe discussed.
- 2. The effects of the project on local and regional energy supplies and on requirements for additional capacity.
- 3. The effects of the project on peak and base period demands for electricity and other forms of energy.
- 4. The degree to which the project complies with existing energy standards.
- 5. The effects of the project on energy resources.
- 6. The project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.

4.3.2 Approach and Methodology

CalEEMod Version 2022 was used to estimate the potential project-energy consumption during construction and operation. Construction of the project would result in petroleum consumption primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details specific to construction and operation are discussed in Section 2.3.2 (Approach and Methodology), which are also applicable for the estimation of construction-related and operations-related energy consumption.

4.4 Impact Analysis

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

4.4.1.1 Analysis

This section addresses the Project's energy requirements during construction and operation pursuant to Appendix F, criteria 1.

4.4.1.2 Construction Energy Demand

Electricity Usage

Temporary electric power for as-necessary lighting and electronic equipment, such as computers inside temporary construction trailers, would be provided by SDG&E or Clean Energy Alliance, the new community choice energy provider that began services in April 2024.

Similarly, pursuant to PDF-AQ-3 and PDF-AQ-4, some construction equipment would be electrified instead of diesel-fueled. CalEEMod results show that electricity during construction would result in 0.21 MT CO₂e, which represents a less than 1% of the total operational GHG emissions associated with electricity. Accordingly, the electricity used for such construction would be temporary, would be substantially less than that required for project operation, and would therefore have a negligible contribution to the project's overall energy consumption.

Natural Gas Usage

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 Usage," below. 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, impacts would be **less than significant**.

Petroleum Usage

Petroleum would be consumed throughout construction of the project. Fuel consumed by construction equipment would be the primary energy resource expended over the course of construction, and VMT associated with the transportation of construction materials and construction worker commutes would also result in petroleum consumption. Heavy-duty construction equipment associated with construction activities and haul trucks involved in relocating dirt around the project site are assumed to use diesel fuel. Construction workers would travel to and from the project site throughout the duration of construction. It is assumed that construction workers would travel to and from the project site in gasoline-powered vehicles. CalEEMod vehicle emission factors are aggregated across fuel types (e.g. gasoline, diesel, and electric) based on average EMFAC2021 emission rates for each vehicle type, weighted according to annual VMT, annual trips, or vehicle population. For operational year 2028, EMFAC assumes

92% of the passenger-type vehicles, which includes Passenger Cars, Motorcycles, Light Duty trucks up to 5,750 pounds, and Medium Duty Trucks up to 8,500 pounds are gasoline powered, less than 1% are diesel-fueled, 5% are electric, and 3% are hybrid. Assuming 100% gasoline would present a conservative result of fuel use as any potential diesel-fueled vehicles would be offset by the electric vehicle portion of the fleet.

Heavy-duty construction equipment of various types would be used during project construction. CalEEMod was used to estimate construction equipment usage; results are included in Appendix A. Fuel consumption from construction equipment was estimated by converting the total CO₂ emissions from each construction phase to gallons using conversion factors for CO₂ to gallons of gasoline or diesel. The conversion factor for gasoline is 8.78 kilograms per metric ton of CO₂ per gallon, and the conversion factor for diesel is 10.21 kilograms per metric ton of CO₂ per gallon (TCR 2023). The estimated diesel fuel usage from construction equipment, and vendor trucks, as well as estimated gasoline fuel usage from worker vehicles is shown in Table 27.

Table 27. Construction Petroleum Demand

Project	Off-road Equipment (diesel)	Vendor Trucks (diesel)	Haul Trucks (Diesel)	Worker Vehicles (gasoline)
	Gallons			
2026	63,813	6,555	11,760	16,590
2027	20,942	4,136	0	8,711
Total	84,755	10,691	11,760	25,301

Source: Appendix D

In summary, construction of the project is conservatively anticipated to consume 25,301 gallons of gasoline and 107,206 gallons of diesel. Project construction would represent a “single-event” petroleum demand and would not require on-going or permanent commitment of petroleum resources for this purpose.

There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities, or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the proposed project would therefore not result in inefficient, wasteful, or unnecessary consumption of fuel. Additionally, PDF-AQ-3 and PDF-AQ-4 require the use of electric powered generators and air compressors. However, fuel reduction from PDF-AQ-3 and PDF-AQ-4 cannot be quantified and are not included in the analysis.

Construction contractors would be required to comply with applicable CARB regulations regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additional construction-source energy efficiencies would occur due to required California regulations and best available control measures. For example, CCR Title 13, Motor Vehicles, Section 2449(d)(2), Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Section 2449(d)(2) requires medium and large fleets to adopt a written idling policy informing operators that idling is limited to 5 consecutive minutes or less. Equipment

rental agreements must also inform renters/lessees of this idling restriction. In this manner, construction equipment operators are required to be informed that engines are to be turned off at or prior to 5 minutes of idling. Enforcement of idling limitations is realized through periodic site inspections conducted by county building officials and/or in response to citizen complaints.

In general, construction processes promote conservation and efficient use of energy by reducing raw material demands, with related reduction in energy demand associated with raw materials extraction, transportation, processing, and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials, as well as the transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations. For these reasons and those noted above, construction of the project would not result in the wasteful or inefficient use of fuel, and the project would result in **less than significant** impacts during project construction regarding the potential for wasteful, inefficient, or unnecessary consumption of energy resources.

4.4.1.3 Operational Energy Demand

Electricity Usage

The operational phase would require electricity for multiple purposes, including building heating and cooling, lighting, and electronics. CalEEMod was used to estimate project emissions from electricity uses (see Appendix A). Default electricity generation rates in CalEEMod were used based on the proposed land use and climate zone.

The project is anticipated to consume approximately 642,875 kilowatt hours of electricity per year with the incorporation of 50% renewable energy. The most recent energy data from the CEC shows that in 2022 the County of San Diego consumed 20,242 gigawatt hours (GWh). The project would represent a less than 0.01% increase in the total demand for electricity. The project would not represent a significant demand on electricity supplies that would require additional capacity. The project's electricity demand would also not result in peak and base period demands that would affect energy supplies or require additional capacity.

The project proposes residential uses reflecting contemporary energy efficient/energy conserving designs and operational programs. The residences proposed by the project are not inherently energy intensive, and the project electricity demands in total would be comparable to other projects of similar scale and configuration. Additionally, the project would be required to comply with the applicable Title 24 standards and PDF-GHG-1, which requires the provision of solar photovoltaics, electric vehicle parking and charging, and drought tolerant landscaping (reduces energy use associated with water supply), which would further ensure that the project energy demands would not be inefficient, wasteful, or otherwise unnecessary and impacts would be **less than significant**.

Natural Gas Usage

Natural gas consumption during operation would be required for various purposes, including, but not limited to, building heating and cooling. Default natural gas generation rates in CalEEMod for the proposed land use and climate zone were used. The project is estimated to have a total natural gas demand of 2,402,183 one thousand British Thermal Units (kBtu) per year or 24,021 therms per year. The most recent energy data from the CEC shows that in 2022 the County of San Diego consumed 522.3 million therms. The project would represent a less than 0.01% increase in the total demand for natural gas.

The project proposes conventional residential uses reflecting contemporary energy efficient/energy conserving designs and operational programs. The residences proposed by the project are not inherently energy intensive, and the project’s natural gas demands in total would be comparable to other projects of similar scale and configuration. Additionally, the project is subject to statewide mandatory energy requirements as outlined in Title 24, Part 6, of the California Code of Regulations. Prior to project construction, the applicant would ensure that the project would meet Title 24 requirements applicable at that time, as required by state regulations through their plan review process. Thus, the natural gas consumption of the project would not be considered inefficient, wasteful, or otherwise unnecessary energy consumption and impacts would be **less than significant**.

Petroleum Usage

During operations, most of the fuel consumption resulting from the project would involve the use of motor vehicles traveling to and from the project site, as well as fuels used for alternative modes of transportation that may be used by residents and visitors of the project.

Petroleum fuel consumption associated with motor vehicles traveling to and from the project site is a function of the VMT as a result of project operation. Similar to construction, fuel consumption from transportation was estimated by converting the total CO₂ emissions to gallons using conversion factors for CO₂ to gallons of gasoline or diesel. Fuel demand estimates for the project are provided in Table 28.

Table 28. Total Project-generated Transportation Annual Fuel Demand

Vehicle Type	Vehicle MT CO ₂	Kg/CO ₂ /Gallon	Estimated Annual Fuel Consumption (gallons)
Gasoline	925.71	8.78	105,433
Diesel	224.50	10.21	21,988
Total			127,422

Source: Appendix D.
Note: Numbers may not add due to rounding.

As summarized in Table 28, the project would result in an estimated annual transportation fuel demand of 127,421 gallons of fuel. As San Diego County was estimated to consume 248,717,737 gallons of diesel fuel in 2023 from Light Heavy Duty Trucks, Medium Heavy Duty Trucks, and Heavy Heavy Duty Trucks (CARB 2024I), the project would represent a less than 0.01% increase in diesel fuel demand. In addition, as San Diego County was estimated to consume 1.3 billion gallons of gasoline in 2023 from light-duty passenger vehicles (CARB 2024I), the project would represent a less than 0.01% increase in gasoline. Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the project are consistent with residential uses of similar scale and configuration. That is, the project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. In addition, the project is located within walking distance to the College Boulevard Sprinter Station and is in a transit priority area. As

supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary and impacts would be **less than significant**.

4.4.1.4 Conclusion

As supported by the preceding analyses, project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. Impacts would be **less than significant**.

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

4.4.2.1 Analysis

The project would be subject to and would comply with, at a minimum, the California Building Energy Efficiency Standards (24 CCR Part 6). Part 6 of Title 24 establishes energy efficiency standards for residential and nonresidential buildings constructed in California in order to reduce energy demand and consumption. As such, the project would comply with the California code requirements for energy efficiency.

Part 11 of Title 24 sets forth voluntary and mandatory energy measures that are applicable to the project under CALGreen. CALGreen institutes mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential, high-rise residential, state-owned buildings, schools, and hospitals, as well as certain residential and nonresidential additions and alterations. Additionally, energy consumed by the project's operation would be comparable to energy consumed by other residential uses of similar scale and intensity that are constructed and operating in California.

The CalGreen building standards were adopted into the City's building design criteria, which the project would comply with. Further, the project would be consistent with the City's CAP Consistency Checklist measures (see Section 3.4) through its implementation of renewable energy facilities, electric vehicle charging, and urban forestry that would serve to reduce operational energy use. The project would include solar photovoltaic on site to supply 50% of the electricity needed by the Oceanside Municipal Code or alternatively comply with the requirement to purchase of an energy portfolio that is comprised of at least 75% renewable, emissions-free energy. The remaining electricity would be provided by SDG&E which in 2022 reported a 44.5% renewable energy content mix, resulting in a project-level renewable content of 72.3%. This would support the state's Senate Bill 100 goal of 60% renewable resources by 2030. SDG&E is required to meet the renewable portfolio standard set by Senate Bill 100, as such, the renewables content of the project's power mix will increase along with SDG&E's power mix.

As discussed previously, as part of the City's preparation and adoption of its CAP in May 2019, the City also adopted its Energy Climate Action Element (ECAE) as part of its General Plan. The ECAE addresses energy consumption and other activities that may contribute to adverse environmental impacts, with particular emphasis on those activities associated with human-induced climate change. The organizing themes of the ECAE are centered around Energy Efficient and Renewable Energy, Smart Growth and Multi-Modal Transportation, Zero Waste, Water Conservation, Urban Greening, Local Agriculture, and Sustainable Consumption. Many of the goals and policies around these themes are implemented at the City-level, however, the project would be consistent with applicable goals and policies. For example, the project would develop within a Smart Growth location, it would incorporate renewable energy, and it would support urban greening in the form of landscaping.

Regarding petroleum, fuel economy and use of alternative modes of transportation are expected to increase over time. The project's location near the Sprinter station offers easily accessible alternative transportation for the new residents of the project. The Low Carbon Fuel Standard is designed to decrease the carbon intensity of California's transportation fuel and provide an increasing range of low-carbon and renewable alternative, which reduces petroleum dependency and encourages the use of cleaner low-carbon transportation. The project would assist with the transition to cleaner fuels by complying with the City's Municipal Code requirement for the installation of electric vehicle charging stations and installing electric vehicle chargers. Per Section 3048, the project will reserve 15% of parking spaces (50) for Electric Vehicles (EV) and provide charging facilities in 50% of the required EV parking spaces (25).

Based on the preceding, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency and impacts would be **less than significant**.

4.4.2.2 Conclusion

The project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. This impact would be **less than significant**.

4.4.3 Would the Project result in a cumulatively considerable energy impact?

4.4.3.1 Analysis

Potential cumulative impacts on energy would result if the proposed project, in combination with past, present, and future projects, would result in the wasteful, inefficient, or unnecessary consumption, or wasteful use of, energy resources during construction or operation or a conflict with or obstruction of a state or local plan for renewable energy or energy efficiency. This could result from development that would not incorporate sufficient building energy efficiency features, would not achieve building energy efficiency standards, or would result in the unnecessary use of energy during construction and/or operation. The related projects within the areas serviced by the energy service providers would be applicable to this analysis. Projects that include development of large buildings or other structures that would have the potential to consume energy in an inefficient manner would have the potential to contribute to a cumulative impact. Projects that would mostly include construction, such as transportation infrastructure, could also contribute to a cumulative impact; however, the impact of these projects would be limited because they would typically not involve substantial ongoing energy use.

As described above, the proposed project would not involve wasteful, inefficient, or unnecessary use of energy and would be consistent with Title 24. Cumulative projects would also be subject to Title 24 and California Green Building Standards requirements similar to the project, which includes energy efficiency standards to minimize the wasteful and inefficient use of energy. Furthermore, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. In consideration of cumulative energy use, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

The project would have a **less than significant impact** with regards to cumulative energy impacts.

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Appendix A

CalEEMod Outputs and Estimated Emissions

Olive Park Apartments Detailed Report

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- 3. Construction Emissions Details
 - 3.1. Site Preparation (2026) - Unmitigated
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- 3.3. Grading Ph 1 (2026) - Unmitigated
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- 3.7. Building Construction (2026) - Unmitigated
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3.21. Linear, Grubbing & Land Clearing (2026) - Unmitigated

3.22. Linear, Grubbing & Land Clearing (2026) - Mitigated

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3.24. Linear, Grading & Excavation (2026) - Mitigated

3.25. Linear, Drainage, Utilities, & Sub-Grade (2026) - Unmitigated

3.26. Linear, Drainage, Utilities, & Sub-Grade (2026) - Mitigated

3.27. Linear, Paving (2026) - Unmitigated

3.28. Linear, Paving (2026) - Mitigated

3.29. Linear, Paving (2027) - Unmitigated

3.30. Linear, Paving (2027) - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Olive Park Apartments
Construction Start Date	1/5/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.90
Precipitation (days)	20.2
Location	33.20255379621061, -117.29162189288245
County	San Diego
City	Oceanside
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6238
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.23

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Apartments Mid Rise	172	Dwelling Unit	1.28	168,500	55,574	0.00	482	Bldg1
Parking Lot	194	Space	2.00	0.00	0.00	—	—	—
Unenclosed Parking Structure	141	Space	0.00	62,000	0.00	—	—	Podium Parking
City Park	0.16	Acre	0.16	0.00	22,000	22,000	—	—
Health Club	6.86	1000sqft	0.00	6,860	0.00	—	—	Leasing/Fitness Bldg1
Other Non-Asphalt Surfaces	0.62	Acre	0.62	0.00	0.00	—	—	Common Open Space Bldg1
Other Non-Asphalt Surfaces	7.10	Acre	7.10	0.00	0.00	—	—	Addtl onsite impact area
Apartments Mid Rise	110	Dwelling Unit	0.23	90,500	9,648	—	308	Bldg2
Health Club	3.20	1000sqft	0.00	3,200	0.00	—	—	Leasing/Fitness Bldg2
Other Non-Asphalt Surfaces	0.26	Acre	0.26	0.00	0.00	—	—	Common Open Space Bldg 2
Road Construction	0.27	Mile	0.77	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.06	3.40	25.7	38.3	0.06	1.08	2.33	3.41	0.99	0.45	1.44	—	8,287	8,287	0.34	0.19	6.96	8,360
Mit.	4.06	3.40	25.7	38.3	0.06	1.08	2.33	3.41	0.99	0.45	1.44	—	8,287	8,287	0.34	0.19	6.96	8,360
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.19	57.7	55.6	51.2	0.17	1.88	8.11	9.75	1.67	4.02	5.34	—	22,716	22,716	1.05	2.24	0.76	23,411
Mit.	6.19	57.7	55.6	51.2	0.17	1.88	8.11	9.75	1.67	4.02	5.34	—	22,716	22,716	1.05	2.24	0.76	23,411
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.59	5.62	17.7	24.2	0.04	0.69	1.93	2.62	0.63	0.50	1.14	—	5,944	5,944	0.26	0.24	2.48	6,025
Mit.	2.59	5.62	17.7	24.2	0.04	0.69	1.93	2.62	0.63	0.50	1.14	—	5,944	5,944	0.26	0.24	2.48	6,025
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.47	1.03	3.23	4.42	0.01	0.13	0.35	0.48	0.12	0.09	0.21	—	984	984	0.04	0.04	0.41	998
Mit.	0.47	1.03	3.23	4.42	0.01	0.13	0.35	0.48	0.12	0.09	0.21	—	984	984	0.04	0.04	0.41	998
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	13.7	40.0	100	40.0	—	—	15.0	—	—	10.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.06	3.40	25.7	38.3	0.06	1.08	2.33	3.41	0.99	0.45	1.44	—	8,287	8,287	0.34	0.19	6.96	8,360
2027	1.53	1.30	9.46	16.8	0.03	0.31	0.97	1.29	0.29	0.23	0.52	—	3,688	3,688	0.15	0.12	4.04	3,732
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.19	4.69	55.6	51.2	0.17	1.88	8.11	9.75	1.67	4.02	5.34	—	22,716	22,716	1.05	2.24	0.76	23,411
2027	2.77	57.7	20.1	22.6	0.04	0.82	3.37	4.18	0.75	1.43	2.18	—	5,005	5,005	0.20	0.12	0.10	5,029
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.59	2.17	17.7	24.2	0.04	0.69	1.93	2.62	0.63	0.50	1.14	—	5,944	5,944	0.26	0.24	2.48	6,025

2027	0.86	5.62	5.44	9.17	0.01	0.18	0.55	0.73	0.17	0.14	0.31	—	2,009	2,009	0.09	0.06	0.93	2,031
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.47	0.40	3.23	4.42	0.01	0.13	0.35	0.48	0.12	0.09	0.21	—	984	984	0.04	0.04	0.41	998
2027	0.16	1.03	0.99	1.67	< 0.005	0.03	0.10	0.13	0.03	0.03	0.06	—	333	333	0.01	0.01	0.15	336

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.06	3.40	25.7	38.3	0.06	1.08	2.33	3.41	0.99	0.45	1.44	—	8,287	8,287	0.34	0.19	6.96	8,360
2027	1.53	1.30	9.46	16.8	0.03	0.31	0.97	1.29	0.29	0.23	0.52	—	3,688	3,688	0.15	0.12	4.04	3,732
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.19	4.69	55.6	51.2	0.17	1.88	8.11	9.75	1.67	4.02	5.34	—	22,716	22,716	1.05	2.24	0.76	23,411
2027	2.77	57.7	20.1	22.6	0.04	0.82	3.37	4.18	0.75	1.43	2.18	—	5,005	5,005	0.20	0.12	0.10	5,029
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.59	2.17	17.7	24.2	0.04	0.69	1.93	2.62	0.63	0.50	1.14	—	5,944	5,944	0.26	0.24	2.48	6,025
2027	0.86	5.62	5.44	9.17	0.01	0.18	0.55	0.73	0.17	0.14	0.31	—	2,009	2,009	0.09	0.06	0.93	2,031
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.47	0.40	3.23	4.42	0.01	0.13	0.35	0.48	0.12	0.09	0.21	—	984	984	0.04	0.04	0.41	998
2027	0.16	1.03	0.99	1.67	< 0.005	0.03	0.10	0.13	0.03	0.03	0.06	—	333	333	0.01	0.01	0.15	336

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.35	13.1	3.68	50.4	0.08	0.12	6.68	6.80	0.11	1.70	1.81	164	8,608	8,772	17.0	0.37	22.6	9,330
Mit.	7.35	13.1	3.68	50.4	0.08	0.12	6.68	6.80	0.11	1.70	1.81	164	8,528	8,692	17.0	0.36	22.6	9,247
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.23	11.1	3.78	29.9	0.07	0.10	6.68	6.79	0.10	1.70	1.80	164	8,219	8,383	17.1	0.39	2.44	8,927
Mit.	5.23	11.1	3.78	29.9	0.07	0.10	6.68	6.79	0.10	1.70	1.80	164	8,140	8,304	17.0	0.38	2.44	8,844
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.92	11.8	3.68	37.8	0.07	0.11	6.29	6.39	0.10	1.59	1.70	164	7,921	8,085	17.0	0.37	10.4	8,629
Mit.	5.92	11.8	3.68	37.8	0.07	0.11	6.29	6.39	0.10	1.59	1.70	164	7,841	8,005	16.9	0.36	10.4	8,546
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.08	2.15	0.67	6.91	0.01	0.02	1.15	1.17	0.02	0.29	0.31	27.1	1,311	1,338	2.82	0.06	1.72	1,429
Mit.	1.08	2.15	0.67	6.91	0.01	0.02	1.15	1.17	0.02	0.29	0.31	27.1	1,298	1,325	2.81	0.06	1.72	1,415
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	< 0.5%	2%	—	1%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Olive Park Apartments Detailed Report, 5/21/2024

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.24	4.87	2.88	30.9	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,571	7,571	0.37	0.30	20.7	7,691
Area	2.03	8.20	0.18	19.2	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	97.7	97.7	0.03	< 0.005	—	99.7
Energy	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	929	929	0.18	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Total	7.35	13.1	3.68	50.4	0.08	0.12	6.68	6.80	0.11	1.70	1.81	164	8,608	8,772	17.0	0.37	22.6	9,330
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.16	4.77	3.17	29.6	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,238	7,238	0.40	0.32	0.54	7,344
Area	0.00	6.29	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9
Energy	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	929	929	0.18	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Total	5.23	11.1	3.78	29.9	0.07	0.10	6.68	6.79	0.10	1.70	1.80	164	8,219	8,383	17.1	0.39	2.44	8,927
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.85	4.49	2.98	28.1	0.07	0.05	6.29	6.34	0.05	1.59	1.64	—	6,945	6,945	0.37	0.30	8.50	7,052
Area	1.00	7.24	0.09	9.45	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	0.00	36.9	36.9	0.01	< 0.005	—	37.4
Energy	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	929	929	0.18	0.02	—	938
Water	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Total	5.92	11.8	3.68	37.8	0.07	0.11	6.29	6.39	0.10	1.59	1.70	164	7,921	8,085	17.0	0.37	10.4	8,629

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.89	0.82	0.54	5.13	0.01	0.01	1.15	1.16	0.01	0.29	0.30	—	1,150	1,150	0.06	0.05	1.41	1,168
Area	0.18	1.32	0.02	1.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.11	6.11	< 0.005	< 0.005	—	6.19
Energy	0.01	0.01	0.11	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	154	154	0.03	< 0.005	—	155
Water	—	—	—	—	—	—	—	—	—	—	—	3.33	1.67	5.00	0.34	0.01	—	16.0
Waste	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.38	0.00	—	83.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.32	0.32
Total	1.08	2.15	0.67	6.91	0.01	0.02	1.15	1.17	0.02	0.29	0.31	27.1	1,311	1,338	2.82	0.06	1.72	1,429

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.24	4.87	2.88	30.9	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,571	7,571	0.37	0.30	20.7	7,691
Area	2.03	8.20	0.18	19.2	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	97.7	97.7	0.03	< 0.005	—	99.7
Energy	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	849	849	0.13	0.01	—	855
Water	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Total	7.35	13.1	3.68	50.4	0.08	0.12	6.68	6.80	0.11	1.70	1.81	164	8,528	8,692	17.0	0.36	22.6	9,247
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.16	4.77	3.17	29.6	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,238	7,238	0.40	0.32	0.54	7,344
Area	0.00	6.29	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9
Energy	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	849	849	0.13	0.01	—	855
Water	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9

Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Total	5.23	11.1	3.78	29.9	0.07	0.10	6.68	6.79	0.10	1.70	1.80	164	8,140	8,304	17.0	0.38	2.44	8,844
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.85	4.49	2.98	28.1	0.07	0.05	6.29	6.34	0.05	1.59	1.64	—	6,945	6,945	0.37	0.30	8.50	7,052
Area	1.00	7.24	0.09	9.45	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	0.00	36.9	36.9	0.01	< 0.005	—	37.4
Energy	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	849	849	0.13	0.01	—	855
Water	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Waste	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Total	5.92	11.8	3.68	37.8	0.07	0.11	6.29	6.39	0.10	1.59	1.70	164	7,841	8,005	16.9	0.36	10.4	8,546
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.89	0.82	0.54	5.13	0.01	0.01	1.15	1.16	0.01	0.29	0.30	—	1,150	1,150	0.06	0.05	1.41	1,168
Area	0.18	1.32	0.02	1.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.11	6.11	< 0.005	< 0.005	—	6.19
Energy	0.01	0.01	0.11	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	141	141	0.02	< 0.005	—	142
Water	—	—	—	—	—	—	—	—	—	—	—	3.33	1.67	5.00	0.34	0.01	—	16.0
Waste	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.38	0.00	—	83.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.32	0.32
Total	1.08	2.15	0.67	6.91	0.01	0.02	1.15	1.17	0.02	0.29	0.31	27.1	1,298	1,325	2.81	0.06	1.72	1,415

3. Construction Emissions Details

3.1. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.80	0.79	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.37	4.37	< 0.005	< 0.005	0.01	4.43
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.81
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	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	0.00

3.2. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316

Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.80	0.79	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.37	4.37	< 0.005	< 0.005	0.01	4.43
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.69	2.69	< 0.005	< 0.005	< 0.005	2.81
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	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	0.00

3.3. Grading Ph 1 (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.90	2.44	22.2	24.4	0.05	0.91	—	0.91	0.83	—	0.83	—	5,089	5,089	0.21	0.04	—	5,107
Dust From Material Movement	—	—	—	—	—	—	3.20	3.20	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.34	< 0.005	0.05	—	0.05	0.05	—	0.05	—	279	279	0.01	< 0.005	—	280

Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.2	46.2	< 0.005	< 0.005	—	46.3
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.01	154
Hauling	0.95	0.28	17.7	6.61	0.09	0.25	3.49	3.73	0.17	0.95	1.12	—	13,228	13,228	0.66	2.13	0.72	13,879
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.74	8.74	< 0.005	< 0.005	0.01	8.86
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.08	8.08	< 0.005	< 0.005	0.01	8.44
Hauling	0.05	0.02	0.96	0.36	< 0.005	0.01	0.19	0.20	0.01	0.05	0.06	—	725	725	0.04	0.12	0.66	761
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.45	1.45	< 0.005	< 0.005	< 0.005	1.47
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.34	1.34	< 0.005	< 0.005	< 0.005	1.40

Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	120	120	0.01	0.02	0.11	126

3.4. Grading Ph 1 (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.90	2.44	22.2	24.4	0.05	0.91	—	0.91	0.83	—	0.83	—	5,089	5,089	0.21	0.04	—	5,107
Dust From Material Movement	—	—	—	—	—	—	3.20	3.20	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.34	< 0.005	0.05	—	0.05	0.05	—	0.05	—	279	279	0.01	< 0.005	—	280
Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.2	46.2	< 0.005	< 0.005	—	46.3

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	0.01	< 0.005	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.01	154
Hauling	0.95	0.28	17.7	6.61	0.09	0.25	3.49	3.73	0.17	0.95	1.12	—	13,228	13,228	0.66	2.13	0.72	13,879
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.74	8.74	< 0.005	< 0.005	0.01	8.86
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.08	8.08	< 0.005	< 0.005	0.01	8.44
Hauling	0.05	0.02	0.96	0.36	< 0.005	0.01	0.19	0.20	0.01	0.05	0.06	—	725	725	0.04	0.12	0.66	761
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.45	1.45	< 0.005	< 0.005	< 0.005	1.47
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.34	1.34	< 0.005	< 0.005	< 0.005	1.40
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	120	120	0.01	0.02	0.11	126

3.5. Grading Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	19.8	21.8	0.04	0.82	—	0.82	0.75	—	0.75	—	4,705	4,705	0.19	0.04	—	4,721
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	51.6	51.6	< 0.005	< 0.005	—	51.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.54	8.54	< 0.005	< 0.005	—	8.57
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.65	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	155	155	0.01	0.01	0.01	157
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	144	144	0.01	0.02	0.01	151
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.74
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.65
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	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	0.00

3.6. Grading Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	19.8	21.8	0.04	0.82	—	0.82	0.75	—	0.75	—	4,705	4,705	0.19	0.04	—	4,721

Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	51.6	51.6	< 0.005	< 0.005	—	51.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.54	8.54	< 0.005	< 0.005	—	8.57
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.65	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	155	155	0.01	0.01	0.01	157
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	144	144	0.01	0.02	0.01	151
Hauling	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.74
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.65
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	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	0.00

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.97	9.06	12.4	0.02	0.35	—	0.35	0.32	—	0.32	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.97	9.06	12.4	0.02	0.35	—	0.35	0.32	—	0.32	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.70	0.59	5.46	7.50	0.01	0.21	—	0.21	0.19	—	0.19	—	1,382	1,382	0.06	0.01	—	1,387
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.00	1.37	< 0.005	0.04	—	0.04	0.04	—	0.04	—	229	229	0.01	< 0.005	—	230
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.59	0.51	0.39	6.05	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,301	1,301	0.06	0.05	4.55	1,321
Vendor	0.05	0.02	0.76	0.36	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	590	590	0.02	0.08	1.44	617
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.50	0.44	5.34	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,229	1,229	0.06	0.05	0.12	1,245
Vendor	0.05	0.02	0.79	0.36	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	590	590	0.02	0.08	0.04	616
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.26	3.25	0.00	0.00	0.70	0.70	0.00	0.16	0.16	—	747	747	0.04	0.03	1.18	758
Vendor	0.03	0.01	0.47	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	355	355	0.01	0.05	0.38	371
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.59	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	124	124	0.01	< 0.005	0.20	126
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	58.8	58.8	< 0.005	0.01	0.06	61.5
Hauling	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	0.00

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.97	9.06	12.4	0.02	0.35	—	0.35	0.32	—	0.32	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.97	9.06	12.4	0.02	0.35	—	0.35	0.32	—	0.32	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.59	5.46	7.50	0.01	0.21	—	0.21	0.19	—	0.19	—	1,382	1,382	0.06	0.01	—	1,387
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.00	1.37	< 0.005	0.04	—	0.04	0.04	—	0.04	—	229	229	0.01	< 0.005	—	230
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.59	0.51	0.39	6.05	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,301	1,301	0.06	0.05	4.55	1,321
Vendor	0.05	0.02	0.76	0.36	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	590	590	0.02	0.08	1.44	617
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.50	0.44	5.34	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,229	1,229	0.06	0.05	0.12	1,245
Vendor	0.05	0.02	0.79	0.36	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	590	590	0.02	0.08	0.04	616
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.26	3.25	0.00	0.00	0.70	0.70	0.00	0.16	0.16	—	747	747	0.04	0.03	1.18	758
Vendor	0.03	0.01	0.47	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	355	355	0.01	0.05	0.38	371
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.59	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	124	124	0.01	< 0.005	0.20	126
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	58.8	58.8	< 0.005	0.01	0.06	61.5
Hauling	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	0.00

3.9. Bldg Con Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.11	0.93	8.60	12.4	0.02	0.31	—	0.31	0.28	—	0.28	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.60	12.4	0.02	0.31	—	0.31	0.28	—	0.28	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.24	6.12	0.01	0.15	—	0.15	0.14	—	0.14	—	1,131	1,131	0.05	0.01	—	1,135
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.77	1.12	< 0.005	0.03	—	0.03	0.03	—	0.03	—	187	187	0.01	< 0.005	—	188
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.25	4.10	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	914	914	0.04	0.03	2.96	928
Vendor	0.04	0.02	0.61	0.29	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	481	481	0.02	0.07	1.07	502
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.34	0.31	3.60	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	863	863	0.05	0.04	0.08	875

Vendor	0.03	0.02	0.63	0.29	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	481	481	0.02	0.07	0.03	502
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.15	1.80	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	429	429	0.02	0.02	0.63	435
Vendor	0.02	0.01	0.31	0.14	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	237	237	0.01	0.03	0.23	248
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.33	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	71.1	71.1	< 0.005	< 0.005	0.10	72.1
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.3	39.3	< 0.005	0.01	0.04	41.0
Hauling	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	0.00

3.10. Bldg Con Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.60	12.4	0.02	0.31	—	0.31	0.28	—	0.28	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.60	12.4	0.02	0.31	—	0.31	0.28	—	0.28	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.24	6.12	0.01	0.15	—	0.15	0.14	—	0.14	—	1,131	1,131	0.05	0.01	—	1,135
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.77	1.12	< 0.005	0.03	—	0.03	0.03	—	0.03	—	187	187	0.01	< 0.005	—	188
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.25	4.10	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	914	914	0.04	0.03	2.96	928
Vendor	0.04	0.02	0.61	0.29	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	481	481	0.02	0.07	1.07	502
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.34	0.31	3.60	0.00	0.00	0.85	0.85	0.00	0.20	0.20	—	863	863	0.05	0.04	0.08	875
Vendor	0.03	0.02	0.63	0.29	< 0.005	0.01	0.13	0.13	0.01	0.04	0.04	—	481	481	0.02	0.07	0.03	502
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.15	1.80	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	429	429	0.02	0.02	0.63	435
Vendor	0.02	0.01	0.31	0.14	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	237	237	0.01	0.03	0.23	248
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.33	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	71.1	71.1	< 0.005	< 0.005	0.10	72.1

Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.3	39.3	< 0.005	0.01	0.04	41.0
Hauling	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	0.00

3.11. Paving Ph 1 (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.5	32.5	< 0.005	< 0.005	—	32.6
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.38	5.38	< 0.005	< 0.005	—	5.40
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.61	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	140	140	0.01	0.01	0.01	142
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.05	3.05	< 0.005	< 0.005	< 0.005	3.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.21
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.51
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37
Hauling	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	0.00

3.12. Paving Ph 1 (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.5	32.5	< 0.005	< 0.005	—	32.6
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.38	5.38	< 0.005	< 0.005	—	5.40
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.61	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	140	140	0.01	0.01	0.01	142
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.3	98.3	< 0.005	0.01	0.01	103
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.05	3.05	< 0.005	< 0.005	< 0.005	3.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.12	2.12	< 0.005	< 0.005	< 0.005	2.21

Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.51
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.35	0.35	< 0.005	< 0.005	< 0.005	0.37
Hauling	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	0.00

3.13. Paving Ph 1 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	44.4	44.4	< 0.005	< 0.005	—	44.5
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.34	7.34	< 0.005	< 0.005	—	7.37

Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.58	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	0.01	0.01	0.01	140
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.09	4.09	< 0.005	< 0.005	0.01	4.15
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.82	2.82	< 0.005	< 0.005	< 0.005	2.95
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.49
Hauling	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	0.00

3.14. Paving Ph 1 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	44.4	44.4	< 0.005	< 0.005	—	44.5
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.34	7.34	< 0.005	< 0.005	—	7.37
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.58	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	0.01	0.01	0.01	140
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.09	4.09	< 0.005	< 0.005	0.01	4.15
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.82	2.82	< 0.005	< 0.005	< 0.005	2.95
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.49
Hauling	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	0.00

3.15. Paving Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.88

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.58	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	0.01	0.01	0.01	140
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.82	3.82	< 0.005	< 0.005	0.01	3.87
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.75
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.64
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.46
Hauling	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	0.00

3.16. Paving Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.88
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.58	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	0.01	0.01	0.01	140
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.82	3.82	< 0.005	< 0.005	0.01	3.87
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.75
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.64
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.46
Hauling	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	0.00

3.17. Architectural Coating Ph 1 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	57.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	3.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	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
Architectural Coatings	—	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.01	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	242	242	0.01	0.01	0.02	245
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.02	13.5
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	0.01	5.50
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Hauling	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	0.00

3.18. Architectural Coating Ph 1 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	57.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	3.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.01	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	242	242	0.01	0.01	0.02	245
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.02	13.5
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.27	5.27	< 0.005	< 0.005	0.01	5.50
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	< 0.005	0.91
Hauling	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	0.00

3.19. Architectural Coating Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	41.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	1.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.72	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	173	173	0.01	0.01	0.02	175
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.16	7.16	< 0.005	< 0.005	0.01	7.26
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.95	3.95	< 0.005	< 0.005	< 0.005	4.13

Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.65	0.65	< 0.005	< 0.005	< 0.005	0.68
Hauling	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	0.00

3.20. Architectural Coating Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	41.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	1.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architectural Coatings	—	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.72	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	173	173	0.01	0.01	0.02	175
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.2	96.2	< 0.005	0.01	0.01	100
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.16	7.16	< 0.005	< 0.005	0.01	7.26
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.95	3.95	< 0.005	< 0.005	< 0.005	4.13
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.65	0.65	< 0.005	< 0.005	< 0.005	0.68
Hauling	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	0.00

3.21. Linear, Grubbing & Land Clearing (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.22	3.48	< 0.005	0.19	—	0.19	0.17	—	0.17	—	490	490	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.9	34.9	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.78	5.78	< 0.005	< 0.005	—	5.80
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	52.7	52.7	< 0.005	< 0.005	0.01	53.4
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	0.01	3.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.50	3.50	< 0.005	< 0.005	< 0.005	3.66
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.64
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.58	0.58	< 0.005	< 0.005	< 0.005	0.61
Hauling	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	0.00

3.22. Linear, Grubbing & Land Clearing (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.44	0.37	3.22	3.48	< 0.005	0.19	—	0.19	0.17	—	0.17	—	490	490	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.9	34.9	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.78	5.78	< 0.005	< 0.005	—	5.80
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	52.7	52.7	< 0.005	< 0.005	0.01	53.4

Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	0.01	3.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.50	3.50	< 0.005	< 0.005	< 0.005	3.66
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.64
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.58	0.58	< 0.005	< 0.005	< 0.005	0.61
Hauling	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	0.00

3.23. Linear, Grading & Excavation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.4	18.7	0.04	0.72	—	0.72	0.67	—	0.67	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.19	1.84	15.4	18.7	0.04	0.72	—	0.72	0.67	—	0.67	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.02	6.08	0.01	0.24	—	0.24	0.22	—	0.22	—	1,267	1,267	0.05	0.01	—	1,271
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.92	1.11	< 0.005	0.04	—	0.04	0.04	—	0.04	—	210	210	0.01	< 0.005	—	210
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.78	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	167	167	0.01	0.01	0.59	170
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	0.12	51.4
Hauling	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	52.0	52.0	< 0.005	< 0.005	0.08	52.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.0	16.0	< 0.005	< 0.005	0.02	16.7
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.60	8.60	< 0.005	< 0.005	0.01	8.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.65	2.65	< 0.005	< 0.005	< 0.005	2.77
Hauling	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	0.00

3.24. Linear, Grading & Excavation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.4	18.7	0.04	0.72	—	0.72	0.67	—	0.67	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.4	18.7	0.04	0.72	—	0.72	0.67	—	0.67	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.02	6.08	0.01	0.24	—	0.24	0.22	—	0.22	—	1,267	1,267	0.05	0.01	—	1,271
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.92	1.11	< 0.005	0.04	—	0.04	0.04	—	0.04	—	210	210	0.01	< 0.005	—	210
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.78	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	167	167	0.01	0.01	0.59	170

Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	0.12	51.4
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	52.0	52.0	< 0.005	< 0.005	0.08	52.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.0	16.0	< 0.005	< 0.005	0.02	16.7
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.60	8.60	< 0.005	< 0.005	0.01	8.73
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.65	2.65	< 0.005	< 0.005	< 0.005	2.77
Hauling	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	0.00

3.25. Linear, Drainage, Utilities, & Sub-Grade (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.59	1.33	12.0	13.9	0.03	0.49	—	0.49	0.45	—	0.45	—	3,227	3,227	0.13	0.03	—	3,238

Dust From Material Movement:	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.59	1.33	12.0	13.9	0.03	0.49	—	0.49	0.45	—	0.45	—	3,227	3,227	0.13	0.03	—	3,238
Dust From Material Movement:	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.59	3.00	0.01	0.11	—	0.11	0.10	—	0.10	—	698	698	0.03	0.01	—	701
Dust From Material Movement:	—	—	—	—	—	—	0.13	0.13	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	116	116	< 0.005	< 0.005	—	116
Dust From Material Movement:	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.07	1.12	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	242	242	0.01	0.01	0.85	245
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	0.12	51.4
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.99	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	228	228	0.01	0.01	0.02	231
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.8	49.8	< 0.005	< 0.005	0.08	50.6
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.25	8.25	< 0.005	< 0.005	0.01	8.37
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.84
Hauling	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	0.00

3.26. Linear, Drainage, Utilities, & Sub-Grade (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.59	1.33	12.0	13.9	0.03	0.49	—	0.49	0.45	—	0.45	—	3,227	3,227	0.13	0.03	—	3,238
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.59	1.33	12.0	13.9	0.03	0.49	—	0.49	0.45	—	0.45	—	3,227	3,227	0.13	0.03	—	3,238
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.59	3.00	0.01	0.11	—	0.11	0.10	—	0.10	—	698	698	0.03	0.01	—	701
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	116	116	< 0.005	< 0.005	—	116
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.07	1.12	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	242	242	0.01	0.01	0.85	245
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.1	49.1	< 0.005	0.01	0.12	51.4
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.99	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	228	228	0.01	0.01	0.02	231
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.8	49.8	< 0.005	< 0.005	0.08	50.6
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.25	8.25	< 0.005	< 0.005	0.01	8.37
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.84
Hauling	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	0.00

3.27. Linear, Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	4.59	6.88	0.01	0.19	—	0.19	0.18	—	0.18	—	1,046	1,046	0.04	0.01	—	1,049
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.41	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.1	94.1	< 0.005	< 0.005	—	94.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.02	14.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.62
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.38	2.38	< 0.005	< 0.005	< 0.005	2.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Hauling	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	0.00

3.28. Linear, Paving (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	4.59	6.88	0.01	0.19	—	0.19	0.18	—	0.18	—	1,046	1,046	0.04	0.01	—	1,049
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.41	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.1	94.1	< 0.005	< 0.005	—	94.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	158	158	0.01	0.01	0.02	160
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	49.2	49.2	< 0.005	0.01	< 0.005	51.3
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.02	14.6
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.42	4.42	< 0.005	< 0.005	< 0.005	4.62
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.38	2.38	< 0.005	< 0.005	< 0.005	2.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Hauling	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	0.00

3.29. Linear, Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.47	4.46	6.89	0.01	0.18	—	0.18	0.16	—	0.16	—	1,046	1,046	0.04	0.01	—	1,049
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.5	22.5	< 0.005	< 0.005	—	22.6
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.73	3.73	< 0.005	< 0.005	—	3.74
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.65	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	155	155	0.01	0.01	0.01	157
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.1	48.1	< 0.005	0.01	< 0.005	50.2
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.37	3.37	< 0.005	< 0.005	< 0.005	3.42
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.08
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Hauling	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	0.00

3.30. Linear, Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.47	4.46	6.89	0.01	0.18	—	0.18	0.16	—	0.16	—	1,046	1,046	0.04	0.01	—	1,049
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.5	22.5	< 0.005	< 0.005	—	22.6
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.73	3.73	< 0.005	< 0.005	—	3.74
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.65	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	155	155	0.01	0.01	0.01	157
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	48.1	48.1	< 0.005	0.01	< 0.005	50.2
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.37	3.37	< 0.005	< 0.005	< 0.005	3.42
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.08
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Hauling	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	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme Mid Rise	5.24	4.87	2.88	30.9	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,571	7,571	0.37	0.30	20.7	7,691
Parking Lot	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	0.00
Unenclos ed Parking Structure	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	0.00
City Park	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	0.00
Health Club	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	5.24	4.87	2.88	30.9	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,571	7,571	0.37	0.30	20.7	7,691
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	5.16	4.77	3.17	29.6	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,238	7,238	0.40	0.32	0.54	7,344
Parking Lot	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	0.00
Unenclos ed Parking Structure	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	0.00
City Park	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	0.00
Health Club	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	5.16	4.77	3.17	29.6	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,238	7,238	0.40	0.32	0.54	7,344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme Mid Rise	0.89	0.82	0.54	5.13	0.01	0.01	1.15	1.16	0.01	0.29	0.30	—	1,150	1,150	0.06	0.05	1.41	1,168
Parking Lot	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	0.00
Unenclos ed Parking Structure	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	0.00
City Park	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	0.00
Health Club	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	0.89	0.82	0.54	5.13	0.01	0.01	1.15	1.16	0.01	0.29	0.30	—	1,150	1,150	0.06	0.05	1.41	1,168

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	5.24	4.87	2.88	30.9	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,571	7,571	0.37	0.30	20.7	7,691
Parking Lot	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	0.00
Unenclos ed Parking Structure	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	0.00
City Park	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	0.00

Health Club	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	5.24	4.87	2.88	30.9	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,571	7,571	0.37	0.30	20.7	7,691
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	5.16	4.77	3.17	29.6	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,238	7,238	0.40	0.32	0.54	7,344
Parking Lot	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	0.00
Unenclosed Parking Structure	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	0.00
City Park	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	0.00
Health Club	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	5.16	4.77	3.17	29.6	0.07	0.05	6.68	6.74	0.05	1.70	1.75	—	7,238	7,238	0.40	0.32	0.54	7,344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.89	0.82	0.54	5.13	0.01	0.01	1.15	1.16	0.01	0.29	0.30	—	1,150	1,150	0.06	0.05	1.41	1,168
Parking Lot	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	0.00
Unenclosed Parking Structure	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	0.00

City Park	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	0.00
Health Club	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	0.00
Other Non-Asphalt Surfaces	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	0.00
Total	0.89	0.82	0.54	5.13	0.01	0.01	1.15	1.16	0.01	0.29	0.30	—	1,150	1,150	0.06	0.05	1.41	1,168

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	118	118	0.09	0.01	—	123
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	9.43	9.43	0.01	< 0.005	—	9.85
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1	0.01	< 0.005	—	21.0
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	11.2	11.2	0.01	< 0.005	—	11.7
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	159	159	0.12	0.01	—	166

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	118	118	0.09	0.01	—	123
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	9.43	9.43	0.01	< 0.005	—	9.85
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	20.1	20.1	0.01	< 0.005	—	21.0
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	11.2	11.2	0.01	< 0.005	—	11.7
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	159	159	0.12	0.01	—	166
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	19.6	19.6	0.01	< 0.005	—	20.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1.56	1.56	< 0.005	< 0.005	—	1.63
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	3.33	3.33	< 0.005	< 0.005	—	3.48
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	1.85	1.85	< 0.005	< 0.005	—	1.93
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	26.3	26.3	0.02	< 0.005	—	27.5

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	59.1	59.1	0.04	0.01	—	61.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71	< 0.005	< 0.005	—	4.93
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	10.1	10.1	0.01	< 0.005	—	10.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58	< 0.005	< 0.005	—	5.83
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79.4	79.4	0.06	0.01	—	83.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	59.1	59.1	0.04	0.01	—	61.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.71	4.71	< 0.005	< 0.005	—	4.93

Unenclosed	—	—	—	—	—	—	—	—	—	—	—	—	10.1	10.1	0.01	< 0.005	—	10.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58	< 0.005	< 0.005	—	5.83
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	79.4	79.4	0.06	0.01	—	83.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	9.78	9.78	0.01	< 0.005	—	10.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.78	0.78	< 0.005	< 0.005	—	0.82
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	1.67	1.67	< 0.005	< 0.005	—	1.74
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	0.92	0.92	< 0.005	< 0.005	—	0.96
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2	0.01	< 0.005	—	13.7

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.06	0.03	0.50	0.21	< 0.005	0.04	—	0.04	0.04	—	0.04	—	640	640	0.06	< 0.005	—	642
Parking Lot	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
Unenclosed Parking Structure	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
City Park	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
Health Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	130	130	0.01	< 0.005	—	130
Other Non-Asphalt Surfaces	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
Total	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	770	770	0.07	< 0.005	—	772
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.06	0.03	0.50	0.21	< 0.005	0.04	—	0.04	0.04	—	0.04	—	640	640	0.06	< 0.005	—	642
Parking Lot	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
Unenclosed Parking Structure	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
City Park	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
Health Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	130	130	0.01	< 0.005	—	130

Other Non-Asphalt Surfaces	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
Total	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	770	770	0.07	< 0.005	—	772
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.01	0.01	0.09	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	106
Parking Lot	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
Unenclosed Parking Structure	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
City Park	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
Health Club	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.6
Other Non-Asphalt Surfaces	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
Total	0.01	0.01	0.11	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	127	127	0.01	< 0.005	—	128

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.06	0.03	0.50	0.21	< 0.005	0.04	—	0.04	0.04	—	0.04	—	640	640	0.06	< 0.005	—	642
Parking Lot	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

Unenclos Parking Structure	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
City Park	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
Health Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	130	130	0.01	< 0.005	—	130
Other Non-Asphalt Surfaces	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
Total	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	770	770	0.07	< 0.005	—	772
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	0.06	0.03	0.50	0.21	< 0.005	0.04	—	0.04	0.04	—	0.04	—	640	640	0.06	< 0.005	—	642
Parking Lot	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
Unenclos ed Parking Structure	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
City Park	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
Health Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	130	130	0.01	< 0.005	—	130
Other Non-Asphalt Surfaces	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
Total	0.07	0.04	0.61	0.31	< 0.005	0.05	—	0.05	0.05	—	0.05	—	770	770	0.07	< 0.005	—	772
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	0.01	0.01	0.09	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	106
Parking Lot	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

Unenclos Parking Structure	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
City Park	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
Health Club	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.6
Other Non-Asphalt Surfaces	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
Total	0.01	0.01	0.11	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	127	127	0.01	< 0.005	—	128

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9
Consumer Products	—	5.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.03	1.91	0.18	19.2	< 0.005	0.01	—	0.01	0.01	—	0.01	—	55.7	55.7	< 0.005	< 0.005	—	55.9
Total	2.03	8.20	0.18	19.2	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	97.7	97.7	0.03	< 0.005	—	99.7

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9
Consumer Products	—	5.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	6.29	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	1.56	1.56	< 0.005	< 0.005	—	1.63
Consumer Products	—	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.18	0.17	0.02	1.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.54	4.54	< 0.005	< 0.005	—	4.56
Total	0.18	1.32	0.02	1.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.11	6.11	< 0.005	< 0.005	—	6.19

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9

Consumer	—	5.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.03	1.91	0.18	19.2	< 0.005	0.01	—	0.01	0.01	—	0.01	—	55.7	55.7	< 0.005	< 0.005	—	55.9
Total	2.03	8.20	0.18	19.2	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	97.7	97.7	0.03	< 0.005	—	99.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9
Consumer Products	—	5.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	6.29	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	42.0	42.0	0.03	< 0.005	—	43.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	1.56	1.56	< 0.005	< 0.005	—	1.63
Consumer Products	—	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.18	0.17	0.02	1.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.54	4.54	< 0.005	< 0.005	—	4.56
Total	0.18	1.32	0.02	1.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.11	6.11	< 0.005	< 0.005	—	6.19

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	19.0	9.11	28.1	1.95	0.05	—	91.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.48	0.48	< 0.005	< 0.005	—	0.50
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.14	0.50	1.64	0.12	< 0.005	—	5.41
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	19.0	9.11	28.1	1.95	0.05	—	91.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unenclosed	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.48	0.48	< 0.005	< 0.005	—	0.50
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.14	0.50	1.64	0.12	< 0.005	—	5.41
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	3.14	1.51	4.65	0.32	0.01	—	15.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.08	0.08	< 0.005	< 0.005	—	0.08
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.19	0.08	0.27	0.02	< 0.005	—	0.90
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.33	1.67	5.00	0.34	0.01	—	16.0

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	19.0	9.11	28.1	1.95	0.05	—	91.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.48	0.48	< 0.005	< 0.005	—	0.50
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.14	0.50	1.64	0.12	< 0.005	—	5.41
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	19.0	9.11	28.1	1.95	0.05	—	91.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.48	0.48	< 0.005	< 0.005	—	0.50
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.14	0.50	1.64	0.12	< 0.005	—	5.41

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	20.1	10.1	30.2	2.07	0.05	—	96.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	3.14	1.51	4.65	0.32	0.01	—	15.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.08	0.08	< 0.005	< 0.005	—	0.08
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.19	0.08	0.27	0.02	< 0.005	—	0.90
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.33	1.67	5.00	0.34	0.01	—	16.0

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	113	0.00	113	11.3	0.00	—	395
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Health Club	—	—	—	—	—	—	—	—	—	—	—	30.9	0.00	30.9	3.09	0.00	—	108
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	113	0.00	113	11.3	0.00	—	395
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Health Club	—	—	—	—	—	—	—	—	—	—	—	30.9	0.00	30.9	3.09	0.00	—	108
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	< 0.005
Health Club	—	—	—	—	—	—	—	—	—	—	—	5.12	0.00	5.12	0.51	0.00	—	17.9
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.38	0.00	—	83.3

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	113	0.00	113	11.3	0.00	—	395
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Health Club	—	—	—	—	—	—	—	—	—	—	—	30.9	0.00	30.9	3.09	0.00	—	108
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	113	0.00	113	11.3	0.00	—	395
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Health Club	—	—	—	—	—	—	—	—	—	—	—	30.9	0.00	30.9	3.09	0.00	—	108
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	144	0.00	144	14.4	0.00	—	503
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	18.7	0.00	18.7	1.87	0.00	—	65.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unenclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	< 0.005
Health Club	—	—	—	—	—	—	—	—	—	—	—	5.12	0.00	5.12	0.51	0.00	—	17.9
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	23.8	0.00	23.8	2.38	0.00	—	83.3

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.85	1.85
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.85	1.85
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.32	0.32

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.85	1.85
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.85	1.85
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.90	1.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.32	0.32

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/5/2026	1/16/2026	5.00	10.0	Phase 1 Site Prep
Grading Ph 1	Grading	1/19/2026	2/13/2026	5.00	20.0	Phase 1 Grading
Grading Ph 2	Grading	2/16/2027	2/19/2027	5.00	4.00	Phase 2 Grading
Building Construction	Building Construction	2/16/2026	12/18/2026	5.00	220	Phase 1 Building Construction
Bldg Con Ph 2	Building Construction	2/22/2027	10/29/2027	5.00	180	Phase 2 Building Construction
Paving Ph 1	Paving	12/21/2026	1/15/2027	5.00	20.0	Phase 1 Paving
Paving Ph 2	Paving	11/1/2027	11/12/2027	5.00	10.0	Phase 2 Paving
Architectural Coating Ph 1	Architectural Coating	1/18/2027	2/12/2027	5.00	20.0	Phase 1 Arch Coating
Architectural Coating Ph 2	Architectural Coating	11/15/2027	12/3/2027	5.00	15.0	Phase 2 Arch Coating
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	1/5/2026	2/10/2026	5.00	26.0	—

Linear, Grading & Excavation	Linear, Grading & Excavation	2/11/2026	7/27/2026	5.00	119	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	7/28/2026	11/15/2026	5.00	79.0	—
Linear, Paving	Linear, Paving	11/16/2026	1/11/2027	5.00	40.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading Ph 1	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading Ph 1	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading Ph 1	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading Ph 1	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading Ph 1	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading Ph 1	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading Ph 2	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading Ph 2	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading Ph 2	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading Ph 2	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading Ph 2	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74

Building Construction	Tractors/Loaders/Backh	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Bldg Con Ph 2	Cranes	Diesel	Average	1.00	7.00	367	0.29
Bldg Con Ph 2	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Bldg Con Ph 2	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bldg Con Ph 2	Tractors/Loaders/Backh oes	Diesel	Average	3.00	7.00	84.0	0.37
Bldg Con Ph 2	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving Ph 1	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving Ph 1	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving Ph 1	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving Ph 2	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving Ph 2	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving Ph 2	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating Ph 1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph 2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38

Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading Ph 1	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading Ph 1	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading Ph 1	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading Ph 1	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading Ph 1	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading Ph 1	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading Ph 2	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading Ph 2	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading Ph 2	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading Ph 2	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading Ph 2	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Bldg Con Ph 2	Cranes	Diesel	Average	1.00	7.00	367	0.29
Bldg Con Ph 2	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Bldg Con Ph 2	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bldg Con Ph 2	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Bldg Con Ph 2	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving Ph 1	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving Ph 1	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving Ph 1	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving Ph 2	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving Ph 2	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving Ph 2	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating Ph 1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph 2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	1.00	8.00	148	0.41

Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading Ph 1	—	—	—	—
Grading Ph 1	Worker	18.0	12.0	LDA,LDT1,LDT2
Grading Ph 1	Vendor	6.00	7.63	HHDT,MHDT
Grading Ph 1	Hauling	188	20.0	HHDT
Grading Ph 1	Onsite truck	0.00	0.00	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	140	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	24.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	—	HHDT
Paving Ph 1	—	—	—	—
Paving Ph 1	Worker	16.0	12.0	LDA,LDT1,LDT2
Paving Ph 1	Vendor	4.00	7.63	HHDT,MHDT
Paving Ph 1	Hauling	0.00	20.0	HHDT
Paving Ph 1	Onsite truck	0.00	—	HHDT
Architectural Coating Ph 1	—	—	—	—
Architectural Coating Ph 1	Worker	28.0	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 1	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating Ph 1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph 1	Onsite truck	0.00	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	6.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	7.63	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	18.0	12.0	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	7.63	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	26.0	12.0	LDA,LDT1,LDT2

Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	7.63	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	18.0	12.0	LDA,LDT1,LDT2
Linear, Paving	Vendor	2.00	7.63	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT
Grading Ph 2	—	—	—	—
Grading Ph 2	Worker	18.0	12.0	LDA,LDT1,LDT2
Grading Ph 2	Vendor	6.00	7.63	HHDT,MHDT
Grading Ph 2	Hauling	0.00	20.0	HHDT
Grading Ph 2	Onsite truck	—	—	HHDT
Bldg Con Ph 2	—	—	—	—
Bldg Con Ph 2	Worker	100	12.0	LDA,LDT1,LDT2
Bldg Con Ph 2	Vendor	20.0	7.63	HHDT,MHDT
Bldg Con Ph 2	Hauling	0.00	20.0	HHDT
Bldg Con Ph 2	Onsite truck	—	—	HHDT
Paving Ph 2	—	—	—	—
Paving Ph 2	Worker	16.0	12.0	LDA,LDT1,LDT2
Paving Ph 2	Vendor	4.00	7.63	HHDT,MHDT
Paving Ph 2	Hauling	0.00	20.0	HHDT
Paving Ph 2	Onsite truck	—	—	HHDT
Architectural Coating Ph 2	—	—	—	—
Architectural Coating Ph 2	Worker	20.0	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 2	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating Ph 2	Hauling	0.00	20.0	HHDT

Architectural Coating Ph 2	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading Ph 1	—	—	—	—
Grading Ph 1	Worker	18.0	12.0	LDA,LDT1,LDT2
Grading Ph 1	Vendor	6.00	7.63	HHDT,MHDT
Grading Ph 1	Hauling	188	20.0	HHDT
Grading Ph 1	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	140	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	24.0	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	—	HHDT
Paving Ph 1	—	—	—	—
Paving Ph 1	Worker	16.0	12.0	LDA,LDT1,LDT2
Paving Ph 1	Vendor	4.00	7.63	HHDT,MHDT
Paving Ph 1	Hauling	0.00	20.0	HHDT
Paving Ph 1	Onsite truck	0.00	—	HHDT
Architectural Coating Ph 1	—	—	—	—
Architectural Coating Ph 1	Worker	28.0	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 1	Vendor	4.00	7.63	HHDT,MHDT

Architectural Coating Ph 1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph 1	Onsite truck	0.00	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	6.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	7.63	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	18.0	12.0	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	7.63	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	26.0	12.0	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	7.63	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	18.0	12.0	LDA,LDT1,LDT2
Linear, Paving	Vendor	2.00	7.63	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT
Grading Ph 2	—	—	—	—
Grading Ph 2	Worker	18.0	12.0	LDA,LDT1,LDT2
Grading Ph 2	Vendor	6.00	7.63	HHDT,MHDT
Grading Ph 2	Hauling	0.00	20.0	HHDT
Grading Ph 2	Onsite truck	—	—	HHDT

Bldg Con Ph 2	—	—	—	—
Bldg Con Ph 2	Worker	100	12.0	LDA,LDT1,LDT2
Bldg Con Ph 2	Vendor	20.0	7.63	HHDT,MHDT
Bldg Con Ph 2	Hauling	0.00	20.0	HHDT
Bldg Con Ph 2	Onsite truck	—	—	HHDT
Paving Ph 2	—	—	—	—
Paving Ph 2	Worker	16.0	12.0	LDA,LDT1,LDT2
Paving Ph 2	Vendor	4.00	7.63	HHDT,MHDT
Paving Ph 2	Hauling	0.00	20.0	HHDT
Paving Ph 2	Onsite truck	—	—	HHDT
Architectural Coating Ph 2	—	—	—	—
Architectural Coating Ph 2	Worker	20.0	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 2	Vendor	4.00	7.63	HHDT,MHDT
Architectural Coating Ph 2	Hauling	0.00	20.0	HHDT
Architectural Coating Ph 2	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating Ph 1	341,213	113,738	10,290	3,430	14,238
Architectural Coating Ph 2	183,263	61,088	4,800	1,600	10,251

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	15.0	0.00	—
Grading Ph 1	30,000	0.00	20.0	0.00	—
Grading Ph 2	0.00	0.00	12.0	0.00	—
Paving Ph 1	0.00	0.00	0.00	0.00	10.7
Paving Ph 2	0.00	0.00	0.00	0.00	10.7
Linear, Grubbing & Land Clearing	0.00	0.00	0.77	0.00	—
Linear, Grading & Excavation	0.00	0.00	0.77	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	0.00	0.00	0.77	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Parking Lot	2.00	100%
Unenclosed Parking Structure	0.00	100%
City Park	0.00	0%
Health Club	0.00	0%
Other Non-Asphalt Surfaces	0.62	0%
Other Non-Asphalt Surfaces	7.10	0%
Apartments Mid Rise	—	0%

Health Club	0.00	0%
Other Non-Asphalt Surfaces	0.26	0%
Road Construction	0.77	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	230	589	0.03	< 0.005
2027	221	589	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VT/Weekday	VT/Saturday	VT/Sunday	VT/Year
Apartments Mid Rise	817	845	703	293,721	5,584	5,772	4,808	2,007,649
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	523	540	450	187,845	3,571	3,692	3,075	1,283,962
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	817	845	703	293,721	5,584	5,772	4,808	2,007,649
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apartments Mid Rise	523	540	450	187,845	3,571	3,692	3,075	1,283,962
Health Club	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	172
No Fireplaces	0

Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	110
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	172
No Fireplaces	0
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	110
No Fireplaces	0

Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
524475	174,825	15,090	5,030	26,084

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	583,230	45.1	0.0330	0.0040	1,217,491
Parking Lot	76,317	45.1	0.0330	0.0040	0.00
Unenclosed Parking Structure	162,936	45.1	0.0330	0.0040	0.00
City Park	0.00	45.1	0.0330	0.0040	0.00
Health Club	61,558	45.1	0.0330	0.0040	276,899
Other Non-Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00
Apartments Mid Rise	372,996	45.1	0.0330	0.0040	778,628
Health Club	28,715	45.1	0.0330	0.0040	129,166
Other Non-Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	291,615	45.1	0.0330	0.0040	1,217,491
Parking Lot	38,159	45.1	0.0330	0.0040	0.00
Unenclosed Parking Structure	81,468	45.1	0.0330	0.0040	0.00
City Park	0.00	45.1	0.0330	0.0040	0.00
Health Club	30,779	45.1	0.0330	0.0040	276,899
Other Non-Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00
Apartments Mid Rise	186,498	45.1	0.0330	0.0040	778,628
Health Club	14,357	45.1	0.0330	0.0040	129,166
Other Non-Asphalt Surfaces	0.00	45.1	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	6,042,889	1,015,064
Parking Lot	0.00	0.00
Unenclosed Parking Structure	0.00	0.00
City Park	0.00	730,604
Health Club	405,722	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Apartments Mid Rise	3,864,638	176,222
Health Club	189,258	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	6,042,889	1,015,064
Parking Lot	0.00	0.00
Unenclosed Parking Structure	0.00	0.00
City Park	0.00	730,604
Health Club	405,722	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Apartments Mid Rise	3,864,638	176,222
Health Club	189,258	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	128	—
Parking Lot	0.00	—
Unenclosed Parking Structure	0.00	—
City Park	0.01	—
Health Club	39.1	—
Other Non-Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Apartments Mid Rise	81.6	—
Health Club	18.2	—
Other Non-Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	128	—
Parking Lot	0.00	—
Unenclosed Parking Structure	0.00	—
City Park	0.01	—
Health Club	39.1	—
Other Non-Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Apartments Mid Rise	81.6	—
Health Club	18.2	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.38	annual days of extreme heat
Extreme Precipitation	3.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	11.8	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	35.2
AQ-PM	38.7
AQ-DPM	17.5
Drinking Water	54.3
Lead Risk Housing	34.1
Pesticides	60.8
Toxic Releases	14.5
Traffic	60.1
Effect Indicators	—
CleanUp Sites	7.71
Groundwater	4.42
Haz Waste Facilities/Generators	65.9
Impaired Water Bodies	43.8
Solid Waste	43.2

Sensitive Population	—
Asthma	30.8
Cardio-vascular	54.2
Low Birth Weights	39.0
Socioeconomic Factor Indicators	—
Education	38.5
Housing	54.1
Linguistic	26.4
Poverty	38.1
Unemployment	53.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	38.70139869
Employed	12.83202874
Median HI	38.45759015
Education	—
Bachelor's or higher	42.51251123
High school enrollment	7.724881304
Preschool enrollment	35.28807905
Transportation	—
Auto Access	83.51084306
Active commuting	7.416912614
Social	—
2-parent households	36.12216091

Voting	72.69344283
Neighborhood	—
Alcohol availability	88.5281663
Park access	59.98973438
Retail density	64.12164763
Supermarket access	50.27588862
Tree canopy	61.14461696
Housing	—
Homeownership	45.79751059
Housing habitability	40.63903503
Low-inc homeowner severe housing cost burden	17.16925446
Low-inc renter severe housing cost burden	37.17438727
Uncrowded housing	40.20274605
Health Outcomes	—
Insured adults	33.79956371
Arthritis	56.7
Asthma ER Admissions	64.2
High Blood Pressure	87.1
Cancer (excluding skin)	52.2
Asthma	43.1
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	42.5
Diagnosed Diabetes	64.3
Life Expectancy at Birth	19.9
Cognitively Disabled	91.4
Physically Disabled	54.0
Heart Attack ER Admissions	56.8

Mental Health Not Good	40.6
Chronic Kidney Disease	73.0
Obesity	50.5
Pedestrian Injuries	19.6
Physical Health Not Good	53.6
Stroke	64.5
Health Risk Behaviors	—
Binge Drinking	8.9
Current Smoker	42.3
No Leisure Time for Physical Activity	55.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	25.4
Elderly	71.6
English Speaking	38.9
Foreign-born	33.1
Outdoor Workers	69.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	63.0
Traffic Density	40.2
Traffic Access	23.0
Other Indices	—
Hardship	57.0
Other Decision Support	—
2016 Voting	78.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	37.0
Healthy Places Index Score for Project Location (b)	32.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Podium parking modeled as unenclosed parking structure, but acreage is zeroed out because it is captured in Building 1 Apartments Mid Rise. Fitness centers/leasing areas are modeled as health club, but acreage is zeroed out because it is captured in Apartments Mid Rise for Bldg 1 and Bldg 2 Population based on 2.8 people per household.
Construction: Construction Phases	no demo.
Construction: Trips and VMT	even numbers
Operations: Vehicle Data	no trips for on-site fitness for residents. Park is for local residents only.
Construction: Architectural Coatings	Based on quantities for individual phases for Bldg 1 and Bldg 2

Construction: Off-Road Equipment	Bore/Drill rig required per applicant.
Operations: Hearths	No woodburning stoves or fireplaces. All electric fireplaces.
Construction: Dust From Material Movement	Based on applicant provided information. 30,000 cubic yards of soil import.

Olive Park Apartments Construction HRA Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Olive Park Apartments Construction HRA
Construction Start Date	1/5/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.90
Precipitation (days)	20.2
Location	33.20255379621061, -117.29162189288245
County	San Diego
City	Oceanside
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6238
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	172	Dwelling Unit	1.28	168,500	55,574	0.00	482	Bldg1

Parking Lot	194	Space	2.00	0.00	0.00	—	—	—
Unenclosed Parking Structure	141	Space	0.00	62,000	0.00	—	—	Podium Parking
City Park	0.16	Acre	0.16	0.00	22,000	22,000	—	—
Health Club	6.86	1000sqft	0.00	6,860	0.00	—	—	Leasing/Fitness Bldg1
Other Non-Asphalt Surfaces	0.62	Acre	0.62	0.00	0.00	—	—	Common Open Space Bldg1
Other Non-Asphalt Surfaces	7.10	Acre	7.10	0.00	0.00	—	—	Addtl onsite impact area
Apartments Mid Rise	110	Dwelling Unit	0.23	90,500	9,648	—	308	Bldg2
Health Club	3.20	1000sqft	0.00	3,200	0.00	—	—	Leasing/Fitness Bldg2
Other Non-Asphalt Surfaces	0.26	Acre	0.26	0.00	0.00	—	—	Common Open Space Bldg 2
Road Construction	0.27	Mile	0.77	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.37	2.82	24.7	31.3	0.06	1.07	0.83	1.90	0.99	0.09	1.08	—	6,227	6,227	0.26	0.06	0.05	6,251
Mit.	0.68	0.65	5.41	37.7	0.06	0.14	0.83	0.95	0.13	0.09	0.21	—	6,227	6,227	0.26	0.06	0.05	6,251
% Reduced	80%	77%	78%	-21%	—	87%	—	50%	86%	—	81%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.30	57.6	40.8	45.3	0.09	1.63	7.87	9.31	1.50	3.96	5.28	—	9,475	9,475	0.45	0.15	0.01	9,533
Mit.	1.10	57.6	9.97	54.2	0.09	0.17	7.87	7.98	0.17	3.96	4.07	—	9,475	9,475	0.45	0.15	0.01	9,533
% Reduced	79%	—	76%	-20%	—	89%	—	14%	89%	—	23%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.14	5.43	16.2	20.0	0.04	0.67	0.81	1.48	0.62	0.23	0.85	—	3,990	3,990	0.17	0.04	0.02	4,007
Mit.	0.44	5.03	3.57	23.9	0.04	0.08	0.81	0.89	0.08	0.23	0.31	—	3,990	3,990	0.17	0.04	0.02	4,007
% Reduced	79%	7%	78%	-19%	—	88%	—	40%	87%	—	63%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.39	0.99	2.96	3.66	0.01	0.12	0.15	0.27	0.11	0.04	0.15	—	661	661	0.03	0.01	< 0.005	663
Mit.	0.08	0.92	0.65	4.36	0.01	0.01	0.15	0.16	0.01	0.04	0.06	—	661	661	0.03	0.01	< 0.005	663
% Reduced	79%	7%	78%	-19%	—	88%	—	40%	87%	—	63%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold d	—	75.0	250	550	250	—	—	100	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold d	—	13.7	40.0	100	40.0	—	—	15.0	—	—	10.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.37	2.82	24.7	31.3	0.06	1.07	0.83	1.90	0.99	0.09	1.08	—	6,227	6,227	0.26	0.06	0.05	6,251
2027	1.13	0.94	8.82	12.6	0.02	0.31	< 0.005	0.31	0.28	< 0.005	0.28	—	2,330	2,330	0.10	0.02	0.04	2,340
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.30	4.39	40.8	45.3	0.09	1.63	7.87	9.31	1.50	3.96	5.28	—	9,475	9,475	0.45	0.15	0.01	9,533
2027	2.70	57.6	19.9	21.9	0.04	0.82	3.18	3.99	0.75	1.38	2.13	—	4,716	4,716	0.19	0.04	< 0.005	4,733
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.14	1.80	16.2	20.0	0.04	0.67	0.81	1.48	0.62	0.23	0.85	—	3,990	3,990	0.17	0.04	0.02	4,007

2027	0.65	5.43	5.07	7.16	0.01	0.18	0.04	0.22	0.17	0.02	0.18	—	1,310	1,310	0.06	0.01	0.01	1,316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.39	0.33	2.96	3.66	0.01	0.12	0.15	0.27	0.11	0.04	0.15	—	661	661	0.03	0.01	< 0.005	663
2027	0.12	0.99	0.92	1.31	< 0.005	0.03	0.01	0.04	0.03	< 0.005	0.03	—	217	217	0.01	< 0.005	< 0.005	218

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.68	0.65	5.41	37.7	0.06	0.14	0.83	0.95	0.13	0.09	0.21	—	6,227	6,227	0.26	0.06	0.05	6,251
2027	0.25	0.24	2.24	14.5	0.02	0.04	< 0.005	0.05	0.04	< 0.005	0.04	—	2,330	2,330	0.10	0.02	0.04	2,340
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.10	1.00	9.97	54.2	0.09	0.17	7.87	7.98	0.17	3.96	4.07	—	9,475	9,475	0.45	0.15	0.01	9,533
2027	0.46	57.6	3.56	26.1	0.04	0.09	3.18	3.27	0.09	1.38	1.47	—	4,716	4,716	0.19	0.04	< 0.005	4,733
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.44	0.43	3.57	23.9	0.04	0.08	0.81	0.89	0.08	0.23	0.31	—	3,990	3,990	0.17	0.04	0.02	4,007
2027	0.14	5.03	1.29	8.18	0.01	0.02	0.04	0.06	0.02	0.02	0.04	—	1,310	1,310	0.06	0.01	0.01	1,316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.08	0.65	4.36	0.01	0.01	0.15	0.16	0.01	0.04	0.06	—	661	661	0.03	0.01	< 0.005	663
2027	0.03	0.92	0.24	1.49	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	217	217	0.01	< 0.005	< 0.005	218

3. Construction Emissions Details

3.1. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement:	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.80	0.79	< 0.005	0.03	—	0.03	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement:	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Hauling	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	0.00

3.2. Site Preparation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Hauling	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	0.00

3.3. Grading Ph 1 (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.90	2.44	22.2	24.4	0.05	0.91	—	0.91	0.83	—	0.83	—	5,089	5,089	0.21	0.04	—	5,107

Dust From Material Movement:	—	—	—	—	—	—	3.20	3.20	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.34	< 0.005	0.05	—	0.05	0.05	—	0.05	—	279	279	0.01	< 0.005	—	280
Dust From Material Movement:	—	—	—	—	—	—	0.18	0.18	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.2	46.2	< 0.005	< 0.005	—	46.3
Dust From Material Movement:	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.21	0.11	3.09	2.10	0.01	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	485	485	0.09	0.08	0.01	511

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.01	0.01	0.17	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	26.4	26.4	< 0.005	< 0.005	0.01	27.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	< 0.005	4.61

3.4. Grading Ph 1 (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	3.68	28.7	0.05	0.10	—	0.10	0.10	—	0.10	—	5,089	5,089	0.21	0.04	—	5,107
Dust From Material Movement	—	—	—	—	—	—	3.20	3.20	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.20	1.58	< 0.005	0.01	—	0.01	0.01	—	0.01	—	279	279	0.01	< 0.005	—	280

Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.2	46.2	< 0.005	< 0.005	—	46.3
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	< 0.005	11.7
Hauling	0.21	0.11	3.09	2.10	0.01	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	485	485	0.09	0.08	0.01	511
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
Hauling	0.01	0.01	0.17	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	26.4	26.4	< 0.005	< 0.005	0.01	27.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11

Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	< 0.005	4.61

3.5. Grading Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	2.26	19.8	21.8	0.04	0.82	—	0.82	0.75	—	0.75	—	4,705	4,705	0.19	0.04	—	4,721
Dust From Material Movement:	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	51.6	51.6	< 0.005	< 0.005	—	51.7
Dust From Material Movement:	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.54	8.54	< 0.005	< 0.005	—	8.57

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	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	0.00

3.6. Grading Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.46	3.49	26.0	0.04	0.09	—	0.09	0.09	—	0.09	—	4,705	4,705	0.19	0.04	—	4,721
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.6	51.6	< 0.005	< 0.005	—	51.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.54	8.54	< 0.005	< 0.005	—	8.57
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.5
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	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	0.00

3.7. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.97	9.06	12.4	0.02	0.35	—	0.35	0.32	—	0.32	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	0.97	9.06	12.4	0.02	0.35	—	0.35	0.32	—	0.32	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.59	5.46	7.50	0.01	0.21	—	0.21	0.19	—	0.19	—	1,382	1,382	0.06	0.01	—	1,387
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.00	1.37	< 0.005	0.04	—	0.04	0.04	—	0.04	—	229	229	0.01	< 0.005	—	230
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.02	0.01	0.26	0.18	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.3	44.3	0.01	0.01	0.05	46.6
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.02	0.01	0.27	0.19	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.7	44.7	0.01	0.01	< 0.005	46.9
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	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	0.00
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	26.8	26.8	< 0.005	< 0.005	0.01	28.2
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.44	4.44	< 0.005	< 0.005	< 0.005	4.66
Hauling	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	0.00

3.8. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	1.22	8.62	0.01	0.03	—	0.03	0.03	—	0.03	—	1,382	1,382	0.06	0.01	—	1,387

Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.22	1.57	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	229	229	0.01	< 0.005	—	230
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.02	0.01	0.26	0.18	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.3	44.3	0.01	0.01	0.05	46.6
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.02	0.01	0.27	0.19	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.7	44.7	0.01	0.01	< 0.005	46.9
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.01	0.01	0.16	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	26.8	26.8	< 0.005	< 0.005	0.01	28.2
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.44	4.44	< 0.005	< 0.005	< 0.005	4.66
Hauling	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	0.00

3.9. Bldg Con Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.60	12.4	0.02	0.31	—	0.31	0.28	—	0.28	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.60	12.4	0.02	0.31	—	0.31	0.28	—	0.28	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	4.24	6.12	0.01	0.15	—	0.15	0.14	—	0.14	—	1,131	1,131	0.05	0.01	—	1,135
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.77	1.12	< 0.005	0.03	—	0.03	0.03	—	0.03	—	187	187	0.01	< 0.005	—	188
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.02	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	36.3	36.3	0.01	0.01	0.04	38.2
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.01	0.01	0.22	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	36.6	36.6	0.01	0.01	< 0.005	38.5
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.01	18.9
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.98	2.98	< 0.005	< 0.005	< 0.005	3.13
Hauling	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	0.00

3.10. Bldg Con Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,293	2,293	0.09	0.02	—	2,301
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	1.00	7.05	0.01	0.02	—	0.02	0.02	—	0.02	—	1,131	1,131	0.05	0.01	—	1,135
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	1.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	187	187	0.01	< 0.005	—	188
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.02	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	36.3	36.3	0.01	0.01	0.04	38.2
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00

Vendor	0.01	0.01	0.22	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	36.6	36.6	0.01	0.01	< 0.005	38.5
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	0.01	< 0.005	0.11	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.0	18.0	< 0.005	< 0.005	0.01	18.9
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.98	2.98	< 0.005	< 0.005	< 0.005	3.13
Hauling	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	0.00

3.11. Paving Ph 1 (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.15	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.5	32.5	< 0.005	< 0.005	—	32.6
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.38	5.38	< 0.005	< 0.005	—	5.40
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	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	0.00

3.12. Paving Ph 1 (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.5	32.5	< 0.005	< 0.005	—	32.6
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.38	5.38	< 0.005	< 0.005	—	5.40
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.45	7.45	< 0.005	< 0.005	< 0.005	7.82
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	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	0.00

3.13. Paving Ph 1 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	44.4	44.4	< 0.005	< 0.005	—	44.5
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.34	7.34	< 0.005	< 0.005	—	7.37
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Hauling	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	0.00

3.14. Paving Ph 1 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.06	0.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.4	44.4	< 0.005	< 0.005	—	44.5
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.34	7.34	< 0.005	< 0.005	—	7.37
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Hauling	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	0.00

3.15. Paving Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.88
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	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	0.00

3.16. Paving Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.88
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	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	0.00

3.17. Architectural Coating Ph 1 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	57.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	3.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42

Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	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	0.00

3.18. Architectural Coating Ph 1 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	57.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	3.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architectural Coatings	—	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	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	0.00

3.19. Architectural Coating Ph 2 (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	41.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	1.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.31
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	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	0.00

3.20. Architectural Coating Ph 2 (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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

Architect Coatings	—	41.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	1.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	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
Architect ural Coatings	—	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.33	7.33	< 0.005	< 0.005	< 0.005	7.69
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.31
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Hauling	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	0.00

3.21. Linear, Grubbing & Land Clearing (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.22	3.48	< 0.005	0.19	—	0.19	0.17	—	0.17	—	490	490	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.9	34.9	< 0.005	< 0.005	—	35.1

Dust From Material Movement:	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.78	5.78	< 0.005	< 0.005	—	5.80
Dust From Material Movement:	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.28
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.05

Hauling	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	0.00

3.22. Linear, Grubbing & Land Clearing (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.84	3.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	490	490	0.02	< 0.005	—	492
Dust From Material Movement:	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.06	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.9	34.9	< 0.005	< 0.005	—	35.1
Dust From Material Movement:	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.78	5.78	< 0.005	< 0.005	—	5.80

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.28
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.05
Hauling	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	0.00

3.23. Linear, Grading & Excavation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.4	18.7	0.04	0.72	—	0.72	0.67	—	0.67	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement:	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.4	18.7	0.04	0.72	—	0.72	0.67	—	0.67	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement:	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.02	6.08	0.01	0.24	—	0.24	0.22	—	0.22	—	1,267	1,267	0.05	0.01	—	1,271
Dust From Material Movement:	—	—	—	—	—	—	0.27	0.27	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.92	1.11	< 0.005	0.04	—	0.04	0.04	—	0.04	—	210	210	0.01	< 0.005	—	210

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	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	0.00

3.24. Linear, Grading & Excavation (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.38	3.10	23.2	0.04	0.07	—	0.07	0.07	—	0.07	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.38	3.10	23.2	0.04	0.07	—	0.07	0.07	—	0.07	—	3,886	3,886	0.16	0.03	—	3,899
Dust From Material Movement	—	—	—	—	—	—	0.83	0.83	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.01	7.58	0.01	0.02	—	0.02	0.02	—	0.02	—	1,267	1,267	0.05	0.01	—	1,271
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	1.38	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	210	210	0.01	< 0.005	—	210
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.21	1.21	< 0.005	< 0.005	< 0.005	1.27
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	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	0.00

3.25. Linear, Drainage, Utilities, & Sub-Grade (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.59	1.33	12.0	13.9	0.03	0.49	—	0.49	0.45	—	0.45	—	3,227	3,227	0.13	0.03	—	3,238
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.59	1.33	12.0	13.9	0.03	0.49	—	0.49	0.45	—	0.45	—	3,227	3,227	0.13	0.03	—	3,238
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.59	3.00	0.01	0.11	—	0.11	0.10	—	0.10	—	698	698	0.03	0.01	—	701
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	116	116	< 0.005	< 0.005	—	116
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.84
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14

Hauling	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	0.00

3.26. Linear, Drainage, Utilities, & Sub-Grade (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	0.41	2.40	18.4	0.03	0.09	—	0.09	0.09	—	0.09	—	3,227	3,227	0.13	0.03	—	3,238
Dust From Material Movement:	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	0.41	2.40	18.4	0.03	0.09	—	0.09	0.09	—	0.09	—	3,227	3,227	0.13	0.03	—	3,238
Dust From Material Movement:	—	—	—	—	—	—	0.62	0.62	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.52	3.99	0.01	0.02	—	0.02	0.02	—	0.02	—	698	698	0.03	0.01	—	701

Dust From Material Movement:	—	—	—	—	—	—	0.13	0.13	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.09	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	116	116	< 0.005	< 0.005	—	116
Dust From Material Movement:	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.70	3.70	< 0.005	< 0.005	< 0.005	3.88
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.84
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Hauling	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	0.00

3.27. Linear, Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	4.59	6.88	0.01	0.19	—	0.19	0.18	—	0.18	—	1,046	1,046	0.04	0.01	—	1,049
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.41	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.1	94.1	< 0.005	< 0.005	—	94.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.35
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	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	0.00

3.28. Linear, Paving (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	1.11	7.33	0.01	0.02	—	0.02	0.02	—	0.02	—	1,046	1,046	0.04	0.01	—	1,049

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	94.1	94.1	< 0.005	< 0.005	—	94.5
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.35
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Hauling	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	0.00

3.29. Linear, Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.47	4.46	6.89	0.01	0.18	—	0.18	0.16	—	0.16	—	1,046	1,046	0.04	0.01	—	1,049
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.5	22.5	< 0.005	< 0.005	—	22.6
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.73	3.73	< 0.005	< 0.005	—	3.74
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.85
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	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	0.00

3.30. Linear, Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.11	1.11	7.33	0.01	0.02	—	0.02	0.02	—	0.02	—	1,046	1,046	0.04	0.01	—	1,049
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.02	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.5	22.5	< 0.005	< 0.005	—	22.6
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.73	3.73	< 0.005	< 0.005	—	3.74
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.85
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	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	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	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	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/5/2026	1/16/2026	5.00	10.0	Phase 1 Site Prep
Grading Ph 1	Grading	1/19/2026	2/13/2026	5.00	20.0	Phase 1 Grading
Grading Ph 2	Grading	2/16/2027	2/19/2027	5.00	4.00	Phase 2 Grading
Building Construction	Building Construction	2/16/2026	12/18/2026	5.00	220	Phase 1 Building Construction
Bldg Con Ph 2	Building Construction	2/22/2027	10/29/2027	5.00	180	Phase 2 Building Construction
Paving Ph 1	Paving	12/21/2026	1/15/2027	5.00	20.0	Phase 1 Paving
Paving Ph 2	Paving	11/1/2027	11/12/2027	5.00	10.0	Phase 2 Paving
Architectural Coating Ph 1	Architectural Coating	1/18/2027	2/12/2027	5.00	20.0	Phase 1 Arch Coating

Architectural Coating Ph 2	Architectural Coating	11/15/2027	12/3/2027	5.00	15.0	Phase 2 Arch Coating
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	1/5/2026	2/10/2026	5.00	26.0	—
Linear, Grading & Excavation	Linear, Grading & Excavation	2/11/2026	7/27/2026	5.00	119	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	7/28/2026	11/15/2026	5.00	79.0	—
Linear, Paving	Linear, Paving	11/16/2026	1/11/2027	5.00	40.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading Ph 1	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading Ph 1	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading Ph 1	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading Ph 1	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading Ph 1	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading Ph 1	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading Ph 2	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading Ph 2	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading Ph 2	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading Ph 2	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading Ph 2	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29

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Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Bldg Con Ph 2	Cranes	Diesel	Average	1.00	7.00	367	0.29
Bldg Con Ph 2	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Bldg Con Ph 2	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bldg Con Ph 2	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Bldg Con Ph 2	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving Ph 1	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving Ph 1	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving Ph 1	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving Ph 2	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving Ph 2	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving Ph 2	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating Ph 1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph 2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41

Linear, Grading & Excavation	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

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Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading Ph 1	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading Ph 1	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading Ph 1	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading Ph 1	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading Ph 1	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
Grading Ph 1	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Grading Ph 2	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading Ph 2	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading Ph 2	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading Ph 2	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Grading Ph 2	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Bldg Con Ph 2	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Bldg Con Ph 2	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Bldg Con Ph 2	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Bldg Con Ph 2	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Bldg Con Ph 2	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Paving Ph 1	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42

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Paving Ph 1	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving Ph 1	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Paving Ph 2	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving Ph 2	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving Ph 2	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating Ph 1	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Architectural Coating Ph 2	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48
Linear, Grubbing & Land Clearing	Crawler Tractors	Diesel	Tier 4 Final	1.00	8.00	87.0	0.43
Linear, Grubbing & Land Clearing	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Crawler Tractors	Diesel	Tier 4 Final	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Linear, Grading & Excavation	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
Linear, Grading & Excavation	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Electric	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Electric	Average	1.00	8.00	14.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41

Linear, Drainage, Utilities, & Sub-Grade	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Linear, Drainage, Utilities, & Sub-Grade	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Linear, Drainage, Utilities, & Sub-Grade	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	8.00	96.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Linear, Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Linear, Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	89.0	0.36
Linear, Paving	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading Ph 1	—	—	—	—
Grading Ph 1	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading Ph 1	Vendor	6.00	0.25	HHDT,MHDT
Grading Ph 1	Hauling	188	0.25	HHDT
Grading Ph 1	Onsite truck	0.00	0.00	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	24.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	—	HHDT
Paving Ph 1	—	—	—	—
Paving Ph 1	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving Ph 1	Vendor	4.00	0.25	HHDT,MHDT
Paving Ph 1	Hauling	0.00	20.0	HHDT
Paving Ph 1	Onsite truck	0.00	—	HHDT
Architectural Coating Ph 1	—	—	—	—
Architectural Coating Ph 1	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 1	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating Ph 1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph 1	Onsite truck	0.00	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	0.25	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	0.25	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	0.00	12.0	LDA,LDT1,LDT2

Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	0.25	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Paving	Vendor	2.00	0.25	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT
Grading Ph 2	—	—	—	—
Grading Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading Ph 2	Vendor	6.00	0.25	HHDT,MHDT
Grading Ph 2	Hauling	0.00	20.0	HHDT
Grading Ph 2	Onsite truck	—	—	HHDT
Bldg Con Ph 2	—	—	—	—
Bldg Con Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Bldg Con Ph 2	Vendor	20.0	0.25	HHDT,MHDT
Bldg Con Ph 2	Hauling	0.00	20.0	HHDT
Bldg Con Ph 2	Onsite truck	—	—	HHDT
Paving Ph 2	—	—	—	—
Paving Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving Ph 2	Vendor	4.00	0.25	HHDT,MHDT
Paving Ph 2	Hauling	0.00	20.0	HHDT
Paving Ph 2	Onsite truck	—	—	HHDT
Architectural Coating Ph 2	—	—	—	—
Architectural Coating Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 2	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating Ph 2	Hauling	0.00	20.0	HHDT

Architectural Coating Ph 2	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading Ph 1	—	—	—	—
Grading Ph 1	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading Ph 1	Vendor	6.00	0.25	HHDT,MHDT
Grading Ph 1	Hauling	188	0.25	HHDT
Grading Ph 1	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	24.0	0.25	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	—	HHDT
Paving Ph 1	—	—	—	—
Paving Ph 1	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving Ph 1	Vendor	4.00	0.25	HHDT,MHDT
Paving Ph 1	Hauling	0.00	20.0	HHDT
Paving Ph 1	Onsite truck	0.00	—	HHDT
Architectural Coating Ph 1	—	—	—	—
Architectural Coating Ph 1	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 1	Vendor	4.00	0.25	HHDT,MHDT

Architectural Coating Ph 1	Hauling	0.00	20.0	HHDT
Architectural Coating Ph 1	Onsite truck	0.00	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	0.25	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	0.25	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	2.00	0.25	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Paving	Vendor	2.00	0.25	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT
Grading Ph 2	—	—	—	—
Grading Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Grading Ph 2	Vendor	6.00	0.25	HHDT,MHDT
Grading Ph 2	Hauling	0.00	20.0	HHDT
Grading Ph 2	Onsite truck	—	—	HHDT

Bldg Con Ph 2	—	—	—	—
Bldg Con Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Bldg Con Ph 2	Vendor	20.0	0.25	HHDT,MHDT
Bldg Con Ph 2	Hauling	0.00	20.0	HHDT
Bldg Con Ph 2	Onsite truck	—	—	HHDT
Paving Ph 2	—	—	—	—
Paving Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Paving Ph 2	Vendor	4.00	0.25	HHDT,MHDT
Paving Ph 2	Hauling	0.00	20.0	HHDT
Paving Ph 2	Onsite truck	—	—	HHDT
Architectural Coating Ph 2	—	—	—	—
Architectural Coating Ph 2	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating Ph 2	Vendor	4.00	0.25	HHDT,MHDT
Architectural Coating Ph 2	Hauling	0.00	20.0	HHDT
Architectural Coating Ph 2	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating Ph 1	341,213	113,738	10,290	3,430	14,238
Architectural Coating Ph 2	183,263	61,088	4,800	1,600	10,251

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	15.0	0.00	—
Grading Ph 1	30,000	0.00	20.0	0.00	—
Grading Ph 2	0.00	0.00	12.0	0.00	—
Paving Ph 1	0.00	0.00	0.00	0.00	10.7
Paving Ph 2	0.00	0.00	0.00	0.00	10.7
Linear, Grubbing & Land Clearing	0.00	0.00	0.77	0.00	—
Linear, Grading & Excavation	0.00	0.00	0.77	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	0.00	0.00	0.77	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Parking Lot	2.00	100%
Unenclosed Parking Structure	0.00	100%
City Park	0.00	0%
Health Club	0.00	0%
Other Non-Asphalt Surfaces	0.62	0%
Other Non-Asphalt Surfaces	7.10	0%
Apartments Mid Rise	—	0%

Health Club	0.00	0%
Other Non-Asphalt Surfaces	0.26	0%
Road Construction	0.77	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	230	589	0.03	< 0.005
2027	221	589	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.38	annual days of extreme heat
Extreme Precipitation	3.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	11.8	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	35.2
AQ-PM	38.7
AQ-DPM	17.5
Drinking Water	54.3
Lead Risk Housing	34.1
Pesticides	60.8
Toxic Releases	14.5
Traffic	60.1
Effect Indicators	—
CleanUp Sites	7.71
Groundwater	4.42
Haz Waste Facilities/Generators	65.9
Impaired Water Bodies	43.8
Solid Waste	43.2
Sensitive Population	—
Asthma	30.8
Cardio-vascular	54.2
Low Birth Weights	39.0
Socioeconomic Factor Indicators	—

Education	38.5
Housing	54.1
Linguistic	26.4
Poverty	38.1
Unemployment	53.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	38.70139869
Employed	12.83202874
Median HI	38.45759015
Education	—
Bachelor's or higher	42.51251123
High school enrollment	7.724881304
Preschool enrollment	35.28807905
Transportation	—
Auto Access	83.51084306
Active commuting	7.416912614
Social	—
2-parent households	36.12216091
Voting	72.69344283
Neighborhood	—
Alcohol availability	88.5281663
Park access	59.98973438
Retail density	64.12164763

Supermarket access	50.27588862
Tree canopy	61.14461696
Housing	—
Homeownership	45.79751059
Housing habitability	40.63903503
Low-inc homeowner severe housing cost burden	17.16925446
Low-inc renter severe housing cost burden	37.17438727
Uncrowded housing	40.20274605
Health Outcomes	—
Insured adults	33.79956371
Arthritis	56.7
Asthma ER Admissions	64.2
High Blood Pressure	87.1
Cancer (excluding skin)	52.2
Asthma	43.1
Coronary Heart Disease	66.7
Chronic Obstructive Pulmonary Disease	42.5
Diagnosed Diabetes	64.3
Life Expectancy at Birth	19.9
Cognitively Disabled	91.4
Physically Disabled	54.0
Heart Attack ER Admissions	56.8
Mental Health Not Good	40.6
Chronic Kidney Disease	73.0
Obesity	50.5
Pedestrian Injuries	19.6
Physical Health Not Good	53.6

Stroke	64.5
Health Risk Behaviors	—
Binge Drinking	8.9
Current Smoker	42.3
No Leisure Time for Physical Activity	55.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	25.4
Elderly	71.6
English Speaking	38.9
Foreign-born	33.1
Outdoor Workers	69.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	63.0
Traffic Density	40.2
Traffic Access	23.0
Other Indices	—
Hardship	57.0
Other Decision Support	—
2016 Voting	78.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	37.0
Healthy Places Index Score for Project Location (b)	32.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Podium parking modeled as unenclosed parking structure, but acreage is zeroed out because it is captured in Building 1 Apartments Mid Rise. Fitness centers/leasing areas are modeled as health club, but acreage is zeroed out because it is captured in Apartments Mid Rise for Bldg 1 and Bldg 2 Population based on 2.8 people per household.
Construction: Construction Phases	no demo.
Construction: Trips and VMT	even numbers
Operations: Vehicle Data	no trips for on-site fitness for residents. Park is for local residents only.
Construction: Architectural Coatings	Based on quantities for individual phases for Bldg 1 and Bldg 2
Construction: Off-Road Equipment	Bore/Drill rig required per applicant.
Operations: Hearths	No woodburning stoves or fireplaces.
Construction: Dust From Material Movement	Based on applicant provided information. 30,000 cubic yards of soil import.

Appendix B

Health Risk Assessment Output Files

Olive Park Apartments
Construction HRA - Offsite Receptors

Project Construction Emissions

Year	Unmitigated	Mitigated
	DPM tons/year	DPM tons/year
2026	0.1227	0.0149
2027	0.0329	0.0044
Total	0.156	0.019
Total Lbs	311.179	38.624
Lbs/year	162.137	20.125
Lbs/hour	0.08	0.01

MEIR Risk	Unmitigated	Mitigated
Cancer (persons in a million)	63.96	7.94
Chronic	0.0389	0.005

Conversions:

1 ton =	2,000	lb
Construction =	8	hours/day
	2080	hours/year
	260	days/year
	12	months

AERMOD Assumptions

Source Name	Description	No. of Vol. Sources	Emission Rate g/s	Release Height m	Plume Height m	Plume Width m
SLINE1	Off-Road Equipment and Trucks	399	1.00	5.00	10.00	10.00

Receptors

Grid Sizes	Spacing
Uniform Cartesian	< 50 meters
Discrete	Nearest Sensitive Receptors

Meteorological Data

Station Name	Years	Lat	Long	Elev (m)
CRQ	2019-2021	33.130822°	-117.272686°	92

<https://www.sdapcd.org/content/dam/sdapcd/documents/monitoring/2022-Network-Report.pdf>

Other Model Assumption

Rural or Urban	Urban
Urban Grp Pop	3,276,208
Terrain Data	NED 1
Lakes Version	12.0.0
AERMOD Version	22112

US Census 2022

<https://www.census.gov/quickfacts/fact/table/sandiegocountycalifornia/PST045222>

Olive Park Apartments
Construction HRA - Onsite Receptors

Project Construction Emissions

Year	Unmitigated	Mitigated
	DPM tons/year	DPM tons/year
2027	0.0329	0.0044
Total	0.033	0.004
Total Lbs	65.825	8.897
Lbs/year	78.148	10.563
Lbs/hour	0.04	0.01

MEIR Risk	Unmitigated	Mitigated
Cancer (persons in a million)	32.93	4.45
Chronic	0.0435	0.0059

Conversions:

1 ton =	2,000	lb
Construction =	8	hours/day
	2080	hours/year
	260	days/year
	12	months

AERMOD Assumptions

Source Name	Description	No. of Vol. Sources	Emission Rate g/s	Release Height m	Plume Height m	Plume Width m
SLINE1	Off-Road Equipment and Trucks	137	1.00	5.00	10.00	10.00

Receptors

Grid Sizes	Spacing
Uniform Cartesian	< 50 meters
Discrete	Nearest Sensitive Receptors

Meteorological Data

Station Name		Years	Lat	Long	Elev (m)
Palomar	McClellan-Palomar	2019-2021	33.130822°	-117.272686°	92

<https://www.sdapcd.org/content/dam/sdapcd/documents/monitoring/2022-Network-Report.pdf>

Other Model Assumption

Rural or Urban	Urban
Urban Grp Pop	3,276,208
Terrain Data	NED 1
Lakes Version	12.0.0
AERMOD Version	22112

US Census 2022

<https://www.census.gov/quickfacts/fact/table/sandiegocountycalifornia/PST045222>

Olive Park Apartments
Operational HRA - Rail

Diesel Locomotive Travel:

AERMOD Source Name	Description	Release Height (m)	Plume Height (m)	Plume Width (m)	Initial Lateral Dimension (m)	Initial Vertical Dimension (m)	Length of Source (m)	Distance (mi)	Average Daily Trains (trains/day)	Annual Trains (trains/year)	Train Horsepower	Average Speed (miles/hour)	Emission Factor (g/bhp-hr)	Running PM10 Exhaust (g/hour)	DPM (lb/yr)	DPM (lb/hr)
SPRNTRTL	Sprinter Rail Travel	4.76	9.52	11	5.12	4.43	4,496.40	2.79	64.71	23,621	840	26	0.02	12.6	71.3311	0.008143
BNSFTRVL	BNSF Travel	4.76	9.52	11	5.12	4.43	4,496.40	2.79	--	--	--	--	--	--	0.1488	0.000017

Notes: Release parameters based on Air Dispersion Modeling Assessment of Air Toxic Emissions from BNSF San Diego Rail Yard (ENVIRON 2008) and BAAQMD 2022 CEQA Guidance, Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards (2023)
Speed of Sprinter trains based on departure schedule between College Boulevard Station and next nearest stations (Rancho del Oro Station and Melrose Drive Station)

Diesel Locomotive Idling:

AERMOD Source Name	Description	Release Height (m)	Gas Exit Temperature (K)	Gas Exit Velocity (m/s)	Exit Diameter (m)	Average Daily Trains (trains/day)	Annual Trains (trains/year)	Idling Minutes per Train	Idling Minutes per Year (min/year)	Train Horsepower	Idling PM10 (g/hour)	DPM (lb/yr)	DPM (lb/hr)	DPM (lb/year) Per Idle Location	DPM (lb/hr) Per Idle Location
SPRNIDLE	Sprinter Train Idling at Transit Center	4.76	385.45	4.83	0.56	64.71	23,621	5.00	118,105	840	3.8	16.4035	0.001873	4.1009	0.0005

Notes: Release parameters based on Air Dispersion Modeling Assessment of Air Toxic Emissions from BNSF San Diego Rail Yard (ENVIRON 2008). Emission factors based on EPA standards for Tier 4 engines (for Sprinter).
5 minutes of idling assumed for Sprinter train at transit stop

Based on ratio of idling vs running emission factors provided by BAAQMD for commuter rail, idling assumed to equate to 30% running rates for Sprinter rail

Risk	Unmitigated
Cancer - MEIR	6.67
Chronic - MEIR	0.0018

MERV 13 Filters
0.667

Source Groups	1-HR	Period
SRCGP1	BNSFTRVL	01H1G001.PLT
SRCGP2	SPRNTRTL	01H1G002.PLT
SRCGP3	IDLE WB CS	01H1G003.PLT
SRCGP4	IDLE EB CS	01H1G004.PLT
SRCGP5	IDLE WB RS	01H1G005.PLT
SRCGP6	IDLE EB RS	01H1G006.PLT

87.8833 0.010032

Conversions:

1 lb =	453.6	g
1 m =	3.28	feet
1 mile =	1609.344	m
1 yr =	8,760	hours

Receptors - On-Site

Grid Sizes	Spacing (m)
Discrete Sensitive Receptors	<50 m
Placed at 0 m and 22m flagpole heights	

Meteorological Data

Station Name	Years	Lat	Long	Elev (m)
Palomar	2019-2021	33.130822*	-117.272686*	92
SDAPCD Recommended Station	https://www.sdapcd.org/content/dam/sdapcd/documents/monitoring/2022-Network-Report.pdf			

Other Model Assumption

Rural or Urban	Urban	Urban
Urban Grp Pop	3,276,208	US Census 2022
Terrain Data	NED 1	https://www.census.gov/quickfacts/fact/table/sandiegocountycalifornia/PST045222
Lakes Version	12.0.0	12.0.0
AERMOD Version	22112	22112

```

**
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** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 3/18/2024
** File: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place
Construction\Trolley Place Construction.ADI
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*****
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**
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** AERMOD Control Pathway
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**
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  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 3276208 San_Diego_County_Population
  POLLUTID PM_10
  RUNORNOT RUN
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CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
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** Source ID - Type - X Coord. - Y Coord. **
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** DESCRSRC
** PREFIX
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** Configuration = Adjacent
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** Vertical Dimension = 10.00
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LOCATION L0000004	VOLUME	473137.269	3673913.283	77.39
LOCATION L0000005	VOLUME	473137.457	3673923.282	76.86
LOCATION L0000006	VOLUME	473137.645	3673933.280	76.35
LOCATION L0000007	VOLUME	473137.833	3673943.278	75.77
LOCATION L0000008	VOLUME	473138.021	3673953.276	73.40
LOCATION L0000009	VOLUME	473138.209	3673963.275	71.01
LOCATION L0000010	VOLUME	473136.123	3673970.758	69.14
LOCATION L0000011	VOLUME	473129.651	3673966.510	69.76
LOCATION L0000012	VOLUME	473129.687	3673956.510	71.68

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LOCATION	L0000014	VOLUME	473129.758	3673936.510	74.81
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LOCATION	L0000035	VOLUME	473113.771	3673934.837	72.30
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LOCATION	L0000048	VOLUME	473060.296	3673846.598	88.95
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LOCATION	L0000050	VOLUME	473041.004	3673841.323	88.79
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LOCATION	L0000052	VOLUME	473021.712	3673836.048	87.28
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LOCATION	L0000055	VOLUME	472992.775	3673828.135	82.27
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LOCATION	L0000057	VOLUME	472973.483	3673822.860	77.98
LOCATION	L0000058	VOLUME	472963.837	3673820.223	75.89
LOCATION	L0000059	VOLUME	472954.191	3673817.585	74.57
LOCATION	L0000060	VOLUME	472944.545	3673814.948	73.51
LOCATION	L0000061	VOLUME	472934.899	3673812.310	72.33
LOCATION	L0000062	VOLUME	472925.253	3673809.673	71.52

LOCATION	L0000063	VOLUME	472915.608	3673807.035	70.78
LOCATION	L0000064	VOLUME	472905.962	3673804.397	70.01
LOCATION	L0000065	VOLUME	472896.316	3673801.760	69.65
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LOCATION	L0000069	VOLUME	472914.505	3673815.776	69.62
LOCATION	L0000070	VOLUME	472924.192	3673818.259	70.26
LOCATION	L0000071	VOLUME	472933.879	3673820.741	70.92
LOCATION	L0000072	VOLUME	472943.566	3673823.224	72.21
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LOCATION	L0000075	VOLUME	472972.626	3673830.672	77.56
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LOCATION	L0000077	VOLUME	472992.000	3673835.637	81.84
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LOCATION	L0000079	VOLUME	473011.374	3673840.602	85.64
LOCATION	L0000080	VOLUME	473021.061	3673843.085	86.59
LOCATION	L0000081	VOLUME	473030.748	3673845.568	87.46
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LOCATION	L0000083	VOLUME	473050.122	3673850.533	87.99
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LOCATION	L0000085	VOLUME	473069.496	3673855.498	87.16
LOCATION	L0000086	VOLUME	473079.182	3673857.981	86.50
LOCATION	L0000087	VOLUME	473088.869	3673860.464	85.84
LOCATION	L0000088	VOLUME	473098.556	3673862.946	85.17
LOCATION	L0000089	VOLUME	473108.243	3673865.429	84.48
LOCATION	L0000090	VOLUME	473110.517	3673873.429	82.35
LOCATION	L0000091	VOLUME	473110.115	3673883.421	79.89
LOCATION	L0000092	VOLUME	473109.712	3673893.413	78.13
LOCATION	L0000093	VOLUME	473109.309	3673903.405	76.34
LOCATION	L0000094	VOLUME	473108.907	3673913.396	74.58
LOCATION	L0000095	VOLUME	473108.504	3673923.388	73.23
LOCATION	L0000096	VOLUME	473108.102	3673933.380	71.89
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LOCATION	L0000099	VOLUME	473105.191	3673960.172	68.97
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LOCATION	L0000101	VOLUME	473101.527	3673942.713	69.96
LOCATION	L0000102	VOLUME	473102.086	3673932.728	71.34
LOCATION	L0000103	VOLUME	473102.645	3673922.744	72.71
LOCATION	L0000104	VOLUME	473103.204	3673912.759	74.08
LOCATION	L0000105	VOLUME	473103.763	3673902.775	76.08
LOCATION	L0000106	VOLUME	473104.322	3673892.791	78.08
LOCATION	L0000107	VOLUME	473104.882	3673882.806	80.04
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LOCATION	L0000110	VOLUME	473088.675	3673865.976	84.44
LOCATION	L0000111	VOLUME	473078.983	3673863.514	85.10
LOCATION	L0000112	VOLUME	473069.291	3673861.052	85.75

LOCATION	L0000113	VOLUME	473059.599	3673858.590	86.32
LOCATION	L0000114	VOLUME	473049.907	3673856.128	86.63
LOCATION	L0000115	VOLUME	473040.214	3673853.666	86.91
LOCATION	L0000116	VOLUME	473030.522	3673851.204	86.79
LOCATION	L0000117	VOLUME	473020.830	3673848.742	86.09
LOCATION	L0000118	VOLUME	473011.138	3673846.280	85.23
LOCATION	L0000119	VOLUME	473001.446	3673843.818	83.48
LOCATION	L0000120	VOLUME	472991.753	3673841.356	81.59
LOCATION	L0000121	VOLUME	472982.061	3673838.894	79.56
LOCATION	L0000122	VOLUME	472972.369	3673836.432	77.33
LOCATION	L0000123	VOLUME	472962.677	3673833.970	75.14
LOCATION	L0000124	VOLUME	472952.985	3673831.508	73.26
LOCATION	L0000125	VOLUME	472943.293	3673829.046	71.70
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LOCATION	L0000129	VOLUME	472904.524	3673819.198	68.32
LOCATION	L0000130	VOLUME	472894.832	3673816.736	67.92
LOCATION	L0000131	VOLUME	472887.835	3673818.787	67.22
LOCATION	L0000132	VOLUME	472885.410	3673828.488	66.39
LOCATION	L0000133	VOLUME	472882.985	3673838.189	65.65
LOCATION	L0000134	VOLUME	472880.559	3673847.891	64.94
LOCATION	L0000135	VOLUME	472878.134	3673857.592	64.75
LOCATION	L0000136	VOLUME	472882.995	3673863.684	64.98
LOCATION	L0000137	VOLUME	472892.183	3673867.632	65.00
LOCATION	L0000138	VOLUME	472901.370	3673871.580	64.74
LOCATION	L0000139	VOLUME	472910.558	3673875.528	64.53
LOCATION	L0000140	VOLUME	472919.745	3673879.476	64.76
LOCATION	L0000141	VOLUME	472928.933	3673883.424	65.15
LOCATION	L0000142	VOLUME	472938.121	3673887.372	65.71
LOCATION	L0000143	VOLUME	472947.308	3673891.320	66.21
LOCATION	L0000144	VOLUME	472956.496	3673895.268	66.62
LOCATION	L0000145	VOLUME	472965.684	3673899.216	67.39
LOCATION	L0000146	VOLUME	472974.871	3673903.164	67.72
LOCATION	L0000147	VOLUME	472984.059	3673907.112	67.38
LOCATION	L0000148	VOLUME	472993.247	3673911.060	67.21
LOCATION	L0000149	VOLUME	473002.434	3673915.009	67.60
LOCATION	L0000150	VOLUME	473011.622	3673918.957	68.26
LOCATION	L0000151	VOLUME	473020.810	3673922.905	68.80
LOCATION	L0000152	VOLUME	473029.997	3673926.853	68.97
LOCATION	L0000153	VOLUME	473039.185	3673930.801	68.77
LOCATION	L0000154	VOLUME	473048.373	3673934.749	68.38
LOCATION	L0000155	VOLUME	473057.560	3673938.697	67.95
LOCATION	L0000156	VOLUME	473066.748	3673942.645	67.55
LOCATION	L0000157	VOLUME	473075.936	3673946.593	67.84
LOCATION	L0000158	VOLUME	473085.123	3673950.541	68.10
LOCATION	L0000159	VOLUME	473094.311	3673954.489	68.55
LOCATION	L0000160	VOLUME	473095.281	3673947.156	69.02
LOCATION	L0000161	VOLUME	473086.037	3673943.341	68.37
LOCATION	L0000162	VOLUME	473076.794	3673939.526	68.51

LOCATION	L0000163	VOLUME	473067.550	3673935.711	68.86
LOCATION	L0000164	VOLUME	473058.306	3673931.896	69.30
LOCATION	L0000165	VOLUME	473049.063	3673928.081	69.67
LOCATION	L0000166	VOLUME	473039.819	3673924.266	70.02
LOCATION	L0000167	VOLUME	473030.576	3673920.451	70.01
LOCATION	L0000168	VOLUME	473021.332	3673916.636	69.53
LOCATION	L0000169	VOLUME	473012.088	3673912.821	68.70
LOCATION	L0000170	VOLUME	473002.845	3673909.005	68.82
LOCATION	L0000171	VOLUME	472993.601	3673905.190	68.95
LOCATION	L0000172	VOLUME	472984.357	3673901.375	68.93
LOCATION	L0000173	VOLUME	472975.114	3673897.560	68.77
LOCATION	L0000174	VOLUME	472965.870	3673893.745	67.95
LOCATION	L0000175	VOLUME	472956.626	3673889.930	66.80
LOCATION	L0000176	VOLUME	472947.383	3673886.115	66.32
LOCATION	L0000177	VOLUME	472938.139	3673882.300	65.76
LOCATION	L0000178	VOLUME	472928.895	3673878.485	65.39
LOCATION	L0000179	VOLUME	472919.652	3673874.670	65.12
LOCATION	L0000180	VOLUME	472910.408	3673870.855	64.90
LOCATION	L0000181	VOLUME	472901.164	3673867.040	65.02
LOCATION	L0000182	VOLUME	472891.921	3673863.224	65.11
LOCATION	L0000183	VOLUME	472882.844	3673859.326	64.94
LOCATION	L0000184	VOLUME	472885.376	3673849.652	65.12
LOCATION	L0000185	VOLUME	472887.907	3673839.978	65.86
LOCATION	L0000186	VOLUME	472890.439	3673830.303	66.61
LOCATION	L0000187	VOLUME	472894.107	3673822.537	67.34
LOCATION	L0000188	VOLUME	472903.820	3673824.916	67.85
LOCATION	L0000189	VOLUME	472913.533	3673827.295	68.45
LOCATION	L0000190	VOLUME	472923.245	3673829.675	69.04
LOCATION	L0000191	VOLUME	472932.958	3673832.054	69.57
LOCATION	L0000192	VOLUME	472942.671	3673834.433	71.15
LOCATION	L0000193	VOLUME	472952.384	3673836.813	72.86
LOCATION	L0000194	VOLUME	472962.097	3673839.192	74.81
LOCATION	L0000195	VOLUME	472971.810	3673841.571	77.04
LOCATION	L0000196	VOLUME	472981.522	3673843.950	79.31
LOCATION	L0000197	VOLUME	472991.235	3673846.330	81.32
LOCATION	L0000198	VOLUME	473000.948	3673848.709	83.14
LOCATION	L0000199	VOLUME	473010.661	3673851.088	84.83
LOCATION	L0000200	VOLUME	473020.374	3673853.468	85.29
LOCATION	L0000201	VOLUME	473030.086	3673855.847	85.68
LOCATION	L0000202	VOLUME	473039.799	3673858.226	85.80
LOCATION	L0000203	VOLUME	473049.512	3673860.606	85.52
LOCATION	L0000204	VOLUME	473059.225	3673862.985	85.20
LOCATION	L0000205	VOLUME	473068.938	3673865.364	84.66
LOCATION	L0000206	VOLUME	473078.651	3673867.744	84.03
LOCATION	L0000207	VOLUME	473088.363	3673870.123	83.39
LOCATION	L0000208	VOLUME	473098.076	3673872.502	82.70
LOCATION	L0000209	VOLUME	473099.860	3673880.699	80.56
LOCATION	L0000210	VOLUME	473099.215	3673890.678	78.39
LOCATION	L0000211	VOLUME	473098.569	3673900.657	76.20
LOCATION	L0000212	VOLUME	473097.924	3673910.637	73.97

LOCATION	L0000213	VOLUME	473097.278	3673920.616	72.44
LOCATION	L0000214	VOLUME	473096.633	3673930.595	71.04
LOCATION	L0000215	VOLUME	473095.987	3673940.574	69.64
LOCATION	L0000216	VOLUME	473088.967	3673940.260	68.93
LOCATION	L0000217	VOLUME	473079.745	3673936.391	69.12
LOCATION	L0000218	VOLUME	473070.524	3673932.523	69.51
LOCATION	L0000219	VOLUME	473061.302	3673928.655	70.05
LOCATION	L0000220	VOLUME	473052.080	3673924.787	70.43
LOCATION	L0000221	VOLUME	473042.859	3673920.919	70.77
LOCATION	L0000222	VOLUME	473033.637	3673917.051	70.89
LOCATION	L0000223	VOLUME	473024.416	3673913.183	70.32
LOCATION	L0000224	VOLUME	473015.194	3673909.315	70.13
LOCATION	L0000225	VOLUME	473005.973	3673905.447	70.29
LOCATION	L0000226	VOLUME	472996.751	3673901.578	70.39
LOCATION	L0000227	VOLUME	472987.529	3673897.710	70.33
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LOCATION	L0000229	VOLUME	472969.086	3673889.974	68.97
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LOCATION	L0000231	VOLUME	472950.643	3673882.238	66.63
LOCATION	L0000232	VOLUME	472941.421	3673878.370	66.39
LOCATION	L0000233	VOLUME	472932.200	3673874.502	65.86
LOCATION	L0000234	VOLUME	472922.978	3673870.634	65.61
LOCATION	L0000235	VOLUME	472913.757	3673866.765	65.41
LOCATION	L0000236	VOLUME	472904.535	3673862.897	65.33
LOCATION	L0000237	VOLUME	472895.314	3673859.029	65.33
LOCATION	L0000238	VOLUME	472888.639	3673853.955	65.19
LOCATION	L0000239	VOLUME	472891.489	3673844.369	65.82
LOCATION	L0000240	VOLUME	472894.339	3673834.784	66.59
LOCATION	L0000241	VOLUME	472900.768	3673831.357	67.23
LOCATION	L0000242	VOLUME	472910.507	3673833.624	67.75
LOCATION	L0000243	VOLUME	472920.247	3673835.891	68.26
LOCATION	L0000244	VOLUME	472929.987	3673838.159	68.69
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LOCATION	L0000251	VOLUME	472998.164	3673854.030	81.89
LOCATION	L0000252	VOLUME	473007.903	3673856.297	83.28
LOCATION	L0000253	VOLUME	473017.643	3673858.564	83.95
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LOCATION	L0000260	VOLUME	473085.763	3673874.671	82.24
LOCATION	L0000261	VOLUME	473094.691	3673877.607	81.42
LOCATION	L0000262	VOLUME	473093.502	3673887.536	79.01

LOCATION	L0000263	VOLUME	473092.312	3673897.465	76.61
LOCATION	L0000264	VOLUME	473091.123	3673907.394	74.12
LOCATION	L0000265	VOLUME	473089.934	3673917.323	72.13
LOCATION	L0000266	VOLUME	473088.745	3673927.252	70.66
LOCATION	L0000267	VOLUME	473085.888	3673934.306	69.60
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LOCATION	L0000272	VOLUME	473039.841	3673914.821	71.78
LOCATION	L0000273	VOLUME	473030.631	3673910.924	71.67
LOCATION	L0000274	VOLUME	473021.422	3673907.028	71.62
LOCATION	L0000275	VOLUME	473012.213	3673903.131	71.77
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LOCATION	L0000280	VOLUME	472966.165	3673883.646	69.04
LOCATION	L0000281	VOLUME	472956.956	3673879.749	67.48
LOCATION	L0000282	VOLUME	472947.746	3673875.852	67.31
LOCATION	L0000283	VOLUME	472938.537	3673871.955	66.77
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LOCATION	L0000291	VOLUME	472916.277	3673842.732	67.44
LOCATION	L0000292	VOLUME	472926.033	3673844.925	67.78
LOCATION	L0000293	VOLUME	472935.790	3673847.117	68.58
LOCATION	L0000294	VOLUME	472945.547	3673849.309	70.60
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LOCATION	L0000297	VOLUME	472974.817	3673855.885	76.55
LOCATION	L0000298	VOLUME	472984.574	3673858.077	78.58
LOCATION	L0000299	VOLUME	472994.331	3673860.270	79.99
LOCATION	L0000300	VOLUME	473004.088	3673862.462	81.36
LOCATION	L0000301	VOLUME	473013.844	3673864.654	82.36
LOCATION	L0000302	VOLUME	473023.601	3673866.846	82.66
LOCATION	L0000303	VOLUME	473033.358	3673869.038	82.90
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LOCATION	L0000305	VOLUME	473052.871	3673873.422	82.44
LOCATION	L0000306	VOLUME	473062.628	3673875.614	82.10
LOCATION	L0000307	VOLUME	473072.385	3673877.807	81.51
LOCATION	L0000308	VOLUME	473082.142	3673879.999	80.91
LOCATION	L0000309	VOLUME	473087.961	3673884.868	79.64
LOCATION	L0000310	VOLUME	473086.413	3673894.747	77.14
LOCATION	L0000311	VOLUME	473084.865	3673904.627	74.66
LOCATION	L0000312	VOLUME	473083.317	3673914.506	72.45

LOCATION	L0000313	VOLUME	473081.768	3673924.386	70.99
LOCATION	L0000314	VOLUME	473075.476	3673925.722	70.75
LOCATION	L0000315	VOLUME	473066.272	3673921.813	71.43
LOCATION	L0000316	VOLUME	473057.067	3673917.905	71.97
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LOCATION	L0000318	VOLUME	473038.659	3673910.087	72.77
LOCATION	L0000319	VOLUME	473029.454	3673906.178	72.85
LOCATION	L0000320	VOLUME	473020.250	3673902.270	72.93
LOCATION	L0000321	VOLUME	473011.045	3673898.361	73.20
LOCATION	L0000322	VOLUME	473001.841	3673894.452	73.23
LOCATION	L0000323	VOLUME	472992.636	3673890.543	73.08
LOCATION	L0000324	VOLUME	472983.432	3673886.635	72.67
LOCATION	L0000325	VOLUME	472974.227	3673882.726	71.26
LOCATION	L0000326	VOLUME	472965.023	3673878.817	69.51
LOCATION	L0000327	VOLUME	472955.819	3673874.908	68.31
LOCATION	L0000328	VOLUME	472946.614	3673871.000	67.89
LOCATION	L0000329	VOLUME	472937.410	3673867.091	67.08
LOCATION	L0000330	VOLUME	472928.205	3673863.182	66.43
LOCATION	L0000331	VOLUME	472919.001	3673859.274	66.26
LOCATION	L0000332	VOLUME	472909.796	3673855.365	66.13
LOCATION	L0000333	VOLUME	472903.489	3673849.884	66.22
LOCATION	L0000334	VOLUME	472910.548	3673847.996	66.73
LOCATION	L0000335	VOLUME	472920.312	3673850.155	67.02
LOCATION	L0000336	VOLUME	472930.076	3673852.314	67.28
LOCATION	L0000337	VOLUME	472939.840	3673854.473	68.77
LOCATION	L0000338	VOLUME	472949.604	3673856.632	70.53
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LOCATION	L0000341	VOLUME	472978.897	3673863.110	76.21
LOCATION	L0000342	VOLUME	472988.661	3673865.269	78.01
LOCATION	L0000343	VOLUME	472998.425	3673867.428	79.36
LOCATION	L0000344	VOLUME	473008.189	3673869.588	80.68
LOCATION	L0000345	VOLUME	473017.953	3673871.747	81.18
LOCATION	L0000346	VOLUME	473027.717	3673873.906	81.38
LOCATION	L0000347	VOLUME	473037.481	3673876.065	81.47
LOCATION	L0000348	VOLUME	473047.245	3673878.224	81.15
LOCATION	L0000349	VOLUME	473057.010	3673880.383	80.80
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LOCATION	L0000351	VOLUME	473076.538	3673884.702	79.76
LOCATION	L0000352	VOLUME	473081.486	3673890.069	78.38
LOCATION	L0000353	VOLUME	473079.714	3673899.910	75.95
LOCATION	L0000354	VOLUME	473077.943	3673909.752	73.53
LOCATION	L0000355	VOLUME	473076.171	3673919.594	71.76
LOCATION	L0000356	VOLUME	473067.868	3673917.466	72.22
LOCATION	L0000357	VOLUME	473058.632	3673913.630	72.87
LOCATION	L0000358	VOLUME	473049.397	3673909.794	73.32
LOCATION	L0000359	VOLUME	473040.162	3673905.958	73.91
LOCATION	L0000360	VOLUME	473030.927	3673902.122	74.15
LOCATION	L0000361	VOLUME	473021.692	3673898.287	74.29
LOCATION	L0000362	VOLUME	473012.457	3673894.451	74.62

LOCATION	L0000363	VOLUME	473003.222	3673890.615	74.63
LOCATION	L0000364	VOLUME	472993.987	3673886.779	74.38
LOCATION	L0000365	VOLUME	472984.752	3673882.944	73.97
LOCATION	L0000366	VOLUME	472975.517	3673879.108	72.29
LOCATION	L0000367	VOLUME	472966.282	3673875.272	70.56
LOCATION	L0000368	VOLUME	472957.047	3673871.436	69.12
LOCATION	L0000369	VOLUME	472947.811	3673867.600	68.54
LOCATION	L0000370	VOLUME	472938.576	3673863.765	67.58
LOCATION	L0000371	VOLUME	472929.341	3673859.929	66.72
LOCATION	L0000372	VOLUME	472922.416	3673855.462	66.71
LOCATION	L0000373	VOLUME	472931.051	3673856.875	67.01
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LOCATION	L0000375	VOLUME	472949.613	3673864.320	69.32
LOCATION	L0000376	VOLUME	472958.895	3673868.043	70.07
LOCATION	L0000377	VOLUME	472968.176	3673871.766	71.75
LOCATION	L0000378	VOLUME	472977.457	3673875.488	73.50
LOCATION	L0000379	VOLUME	472986.738	3673879.211	75.10
LOCATION	L0000380	VOLUME	472996.020	3673882.934	75.84
LOCATION	L0000381	VOLUME	473005.301	3673886.656	76.19
LOCATION	L0000382	VOLUME	473014.582	3673890.379	76.11
LOCATION	L0000383	VOLUME	473023.863	3673894.102	75.74
LOCATION	L0000384	VOLUME	473033.145	3673897.824	75.56
LOCATION	L0000385	VOLUME	473042.426	3673901.547	75.13
LOCATION	L0000386	VOLUME	473050.933	3673903.559	74.94
LOCATION	L0000387	VOLUME	473054.261	3673894.129	77.38
LOCATION	L0000388	VOLUME	473054.401	3673886.419	79.27
LOCATION	L0000389	VOLUME	473044.692	3673884.022	79.66
LOCATION	L0000390	VOLUME	473034.984	3673881.625	80.04
LOCATION	L0000391	VOLUME	473025.276	3673879.228	80.03
LOCATION	L0000392	VOLUME	473015.567	3673876.831	79.96
LOCATION	L0000393	VOLUME	473005.859	3673874.433	79.31
LOCATION	L0000394	VOLUME	472996.150	3673872.036	78.08
LOCATION	L0000395	VOLUME	472986.442	3673869.639	76.81
LOCATION	L0000396	VOLUME	472976.733	3673867.242	74.87
LOCATION	L0000397	VOLUME	472967.025	3673864.845	72.83
LOCATION	L0000398	VOLUME	472957.317	3673862.448	70.94
LOCATION	L0000399	VOLUME	472947.608	3673860.051	69.62

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000001	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000002	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000003	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000004	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000005	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000006	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000007	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000008	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000009	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000010	0.0025062657	5.00	4.65	4.65

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SRCPARAM	L0000361	0.0025062657	5.00	4.65	4.65
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SRCPARAM	L0000364	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000365	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000366	0.0025062657	5.00	4.65	4.65
SRCPARAM	L0000367	0.0025062657	5.00	4.65	4.65
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SRCPARAM	L0000370	0.0025062657	5.00	4.65	4.65
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SRCPARAM	L0000389	0.0025062657	5.00	4.65	4.65
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SRCPARAM	L0000394	0.0025062657	5.00	4.65	4.65
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SRCPARAM	L0000396	0.0025062657	5.00	4.65	4.65
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SRCPARAM	L0000399	0.0025062657	5.00	4.65	4.65

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URBANSRC ALL

SRCGROUP ALL

SO FINISHED

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** AERMOD Receptor Pathway

**

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RE STARTING

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INCLUDED "Trolley Place Construction.rou"
RE FINISHED
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** AERMOD Meteorology Pathway
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  PROFFILE McClellanPalomar_2019_2021_v22112.PFL
  SURFDATA 3177 2019
  UAIRDATA 3190 2019
  PROFBASE 92.0 METERS
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ME FINISHED
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** AERMOD Output Pathway
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  RECTABLE 1 1ST
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  PLOTFILE PERIOD ALL "Trolley Place Construction.AD\PE00GALL.PLT" 32
  SUMMFILE "Trolley Place Construction.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      914      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
ME W187      914      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** SETUP Finishes Successfully ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 399 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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: 399 Source(s); 1 Source Group(s); and 2123
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 399 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**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) = 92.00 ; 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 = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Trolley Place Construction.err

**File for Summary of Results: Trolley Place Construction.sum

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000001		0	0.25063E-02	473136.7	3673883.3	78.9	5.00	4.65
4.65	YES		NO					
L0000002		0	0.25063E-02	473136.9	3673893.3	78.4	5.00	4.65
4.65	YES		NO					
L0000003		0	0.25063E-02	473137.1	3673903.3	77.9	5.00	4.65
4.65	YES		NO					
L0000004		0	0.25063E-02	473137.3	3673913.3	77.4	5.00	4.65
4.65	YES		NO					
L0000005		0	0.25063E-02	473137.5	3673923.3	76.9	5.00	4.65
4.65	YES		NO					
L0000006		0	0.25063E-02	473137.6	3673933.3	76.3	5.00	4.65
4.65	YES		NO					
L0000007		0	0.25063E-02	473137.8	3673943.3	75.8	5.00	4.65
4.65	YES		NO					
L0000008		0	0.25063E-02	473138.0	3673953.3	73.4	5.00	4.65
4.65	YES		NO					
L0000009		0	0.25063E-02	473138.2	3673963.3	71.0	5.00	4.65
4.65	YES		NO					
L0000010		0	0.25063E-02	473136.1	3673970.8	69.1	5.00	4.65
4.65	YES		NO					
L0000011		0	0.25063E-02	473129.7	3673966.5	69.8	5.00	4.65
4.65	YES		NO					
L0000012		0	0.25063E-02	473129.7	3673956.5	71.7	5.00	4.65
4.65	YES		NO					
L0000013		0	0.25063E-02	473129.7	3673946.5	73.6	5.00	4.65
4.65	YES		NO					
L0000014		0	0.25063E-02	473129.8	3673936.5	74.8	5.00	4.65
4.65	YES		NO					
L0000015		0	0.25063E-02	473129.8	3673926.5	75.6	5.00	4.65
4.65	YES		NO					
L0000016		0	0.25063E-02	473129.8	3673916.5	76.4	5.00	4.65
4.65	YES		NO					
L0000017		0	0.25063E-02	473129.9	3673906.5	77.2	5.00	4.65
4.65	YES		NO					
L0000018		0	0.25063E-02	473129.9	3673896.5	78.1	5.00	4.65
4.65	YES		NO					
L0000019		0	0.25063E-02	473129.9	3673886.5	78.9	5.00	4.65
4.65	YES		NO					
L0000020		0	0.25063E-02	473130.0	3673876.5	80.3	5.00	4.65

4.65	YES		NO				
L0000021		0	0.25063E-02	473124.5	3673872.2	81.7	5.00 4.65
4.65	YES		NO				
L0000022		0	0.25063E-02	473121.7	3673879.5	80.2	5.00 4.65
4.65	YES		NO				
L0000023		0	0.25063E-02	473121.7	3673889.5	78.8	5.00 4.65
4.65	YES		NO				
L0000024		0	0.25063E-02	473121.8	3673899.5	77.5	5.00 4.65
4.65	YES		NO				
L0000025		0	0.25063E-02	473121.9	3673909.5	76.3	5.00 4.65
4.65	YES		NO				
L0000026		0	0.25063E-02	473122.0	3673919.5	75.2	5.00 4.65
4.65	YES		NO				
L0000027		0	0.25063E-02	473122.0	3673929.5	74.2	5.00 4.65
4.65	YES		NO				
L0000028		0	0.25063E-02	473122.1	3673939.5	73.2	5.00 4.65
4.65	YES		NO				
L0000029		0	0.25063E-02	473122.2	3673949.5	71.9	5.00 4.65
4.65	YES		NO				
L0000030		0	0.25063E-02	473122.2	3673959.5	70.4	5.00 4.65
4.65	YES		NO				
L0000031		0	0.25063E-02	473121.8	3673968.8	69.0	5.00 4.65
4.65	YES		NO				
L0000032		0	0.25063E-02	473113.3	3673964.8	69.0	5.00 4.65
4.65	YES		NO				
L0000033		0	0.25063E-02	473113.4	3673954.8	70.0	5.00 4.65
4.65	YES		NO				
L0000034		0	0.25063E-02	473113.6	3673944.8	71.0	5.00 4.65
4.65	YES		NO				
L0000035		0	0.25063E-02	473113.8	3673934.8	72.3	5.00 4.65
4.65	YES		NO				
L0000036		0	0.25063E-02	473113.9	3673924.8	73.6	5.00 4.65
4.65	YES		NO				
L0000037		0	0.25063E-02	473114.1	3673914.8	74.9	5.00 4.65
4.65	YES		NO				
L0000038		0	0.25063E-02	473114.3	3673904.8	76.5	5.00 4.65
4.65	YES		NO				
L0000039		0	0.25063E-02	473114.4	3673894.8	78.0	5.00 4.65
4.65	YES		NO				
L0000040		0	0.25063E-02	473114.6	3673884.8	79.6	5.00 4.65
4.65	YES		NO				

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000041		0	0.25063E-02	473114.8	3673874.8	81.9	5.00	4.65
4.65	YES		NO					
L0000042		0	0.25063E-02	473114.9	3673864.8	84.5	5.00	4.65
4.65	YES		NO					
L0000043		0	0.25063E-02	473108.5	3673859.8	86.0	5.00	4.65
4.65	YES		NO					
L0000044		0	0.25063E-02	473098.9	3673857.1	86.7	5.00	4.65
4.65	YES		NO					
L0000045		0	0.25063E-02	473089.2	3673854.5	87.3	5.00	4.65
4.65	YES		NO					
L0000046		0	0.25063E-02	473079.6	3673851.9	88.0	5.00	4.65
4.65	YES		NO					
L0000047		0	0.25063E-02	473069.9	3673849.2	88.6	5.00	4.65
4.65	YES		NO					
L0000048		0	0.25063E-02	473060.3	3673846.6	89.0	5.00	4.65
4.65	YES		NO					
L0000049		0	0.25063E-02	473050.6	3673844.0	88.9	5.00	4.65
4.65	YES		NO					
L0000050		0	0.25063E-02	473041.0	3673841.3	88.8	5.00	4.65
4.65	YES		NO					
L0000051		0	0.25063E-02	473031.4	3673838.7	88.2	5.00	4.65
4.65	YES		NO					
L0000052		0	0.25063E-02	473021.7	3673836.0	87.3	5.00	4.65
4.65	YES		NO					
L0000053		0	0.25063E-02	473012.1	3673833.4	86.2	5.00	4.65
4.65	YES		NO					
L0000054		0	0.25063E-02	473002.4	3673830.8	84.4	5.00	4.65
4.65	YES		NO					
L0000055		0	0.25063E-02	472992.8	3673828.1	82.3	5.00	4.65
4.65	YES		NO					
L0000056		0	0.25063E-02	472983.1	3673825.5	80.1	5.00	4.65
4.65	YES		NO					
L0000057		0	0.25063E-02	472973.5	3673822.9	78.0	5.00	4.65
4.65	YES		NO					
L0000058		0	0.25063E-02	472963.8	3673820.2	75.9	5.00	4.65
4.65	YES		NO					
L0000059		0	0.25063E-02	472954.2	3673817.6	74.6	5.00	4.65
4.65	YES		NO					
L0000060		0	0.25063E-02	472944.5	3673814.9	73.5	5.00	4.65

4.65	YES		NO				
L0000061		0	0.25063E-02	472934.9	3673812.3	72.3	5.00
4.65	YES		NO				4.65
L0000062		0	0.25063E-02	472925.3	3673809.7	71.5	5.00
4.65	YES		NO				4.65
L0000063		0	0.25063E-02	472915.6	3673807.0	70.8	5.00
4.65	YES		NO				4.65
L0000064		0	0.25063E-02	472906.0	3673804.4	70.0	5.00
4.65	YES		NO				4.65
L0000065		0	0.25063E-02	472896.3	3673801.8	69.6	5.00
4.65	YES		NO				4.65
L0000066		0	0.25063E-02	472890.2	3673805.7	68.8	5.00
4.65	YES		NO				4.65
L0000067		0	0.25063E-02	472895.1	3673810.8	68.6	5.00
4.65	YES		NO				4.65
L0000068		0	0.25063E-02	472904.8	3673813.3	69.0	5.00
4.65	YES		NO				4.65
L0000069		0	0.25063E-02	472914.5	3673815.8	69.6	5.00
4.65	YES		NO				4.65
L0000070		0	0.25063E-02	472924.2	3673818.3	70.3	5.00
4.65	YES		NO				4.65
L0000071		0	0.25063E-02	472933.9	3673820.7	70.9	5.00
4.65	YES		NO				4.65
L0000072		0	0.25063E-02	472943.6	3673823.2	72.2	5.00
4.65	YES		NO				4.65
L0000073		0	0.25063E-02	472953.3	3673825.7	73.6	5.00
4.65	YES		NO				4.65
L0000074		0	0.25063E-02	472962.9	3673828.2	75.4	5.00
4.65	YES		NO				4.65
L0000075		0	0.25063E-02	472972.6	3673830.7	77.6	5.00
4.65	YES		NO				4.65
L0000076		0	0.25063E-02	472982.3	3673833.2	79.8	5.00
4.65	YES		NO				4.65
L0000077		0	0.25063E-02	472992.0	3673835.6	81.8	5.00
4.65	YES		NO				4.65
L0000078		0	0.25063E-02	473001.7	3673838.1	83.8	5.00
4.65	YES		NO				4.65
L0000079		0	0.25063E-02	473011.4	3673840.6	85.6	5.00
4.65	YES		NO				4.65
L0000080		0	0.25063E-02	473021.1	3673843.1	86.6	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000081		0	0.25063E-02	473030.7	3673845.6	87.5	5.00	4.65
4.65	YES		NO					
L0000082		0	0.25063E-02	473040.4	3673848.0	88.0	5.00	4.65
4.65	YES		NO					
L0000083		0	0.25063E-02	473050.1	3673850.5	88.0	5.00	4.65
4.65	YES		NO					
L0000084		0	0.25063E-02	473059.8	3673853.0	87.7	5.00	4.65
4.65	YES		NO					
L0000085		0	0.25063E-02	473069.5	3673855.5	87.2	5.00	4.65
4.65	YES		NO					
L0000086		0	0.25063E-02	473079.2	3673858.0	86.5	5.00	4.65
4.65	YES		NO					
L0000087		0	0.25063E-02	473088.9	3673860.5	85.8	5.00	4.65
4.65	YES		NO					
L0000088		0	0.25063E-02	473098.6	3673862.9	85.2	5.00	4.65
4.65	YES		NO					
L0000089		0	0.25063E-02	473108.2	3673865.4	84.5	5.00	4.65
4.65	YES		NO					
L0000090		0	0.25063E-02	473110.5	3673873.4	82.3	5.00	4.65
4.65	YES		NO					
L0000091		0	0.25063E-02	473110.1	3673883.4	79.9	5.00	4.65
4.65	YES		NO					
L0000092		0	0.25063E-02	473109.7	3673893.4	78.1	5.00	4.65
4.65	YES		NO					
L0000093		0	0.25063E-02	473109.3	3673903.4	76.3	5.00	4.65
4.65	YES		NO					
L0000094		0	0.25063E-02	473108.9	3673913.4	74.6	5.00	4.65
4.65	YES		NO					
L0000095		0	0.25063E-02	473108.5	3673923.4	73.2	5.00	4.65
4.65	YES		NO					
L0000096		0	0.25063E-02	473108.1	3673933.4	71.9	5.00	4.65
4.65	YES		NO					
L0000097		0	0.25063E-02	473107.7	3673943.4	70.6	5.00	4.65
4.65	YES		NO					
L0000098		0	0.25063E-02	473107.3	3673953.4	69.7	5.00	4.65
4.65	YES		NO					
L0000099		0	0.25063E-02	473105.2	3673960.2	69.0	5.00	4.65
4.65	YES		NO					
L0000100		0	0.25063E-02	473101.0	3673952.7	69.2	5.00	4.65

4.65	YES		NO				
L0000101		0	0.25063E-02	473101.5	3673942.7	70.0	4.65
4.65	YES		NO				
L0000102		0	0.25063E-02	473102.1	3673932.7	71.3	4.65
4.65	YES		NO				
L0000103		0	0.25063E-02	473102.6	3673922.7	72.7	4.65
4.65	YES		NO				
L0000104		0	0.25063E-02	473103.2	3673912.8	74.1	4.65
4.65	YES		NO				
L0000105		0	0.25063E-02	473103.8	3673902.8	76.1	4.65
4.65	YES		NO				
L0000106		0	0.25063E-02	473104.3	3673892.8	78.1	4.65
4.65	YES		NO				
L0000107		0	0.25063E-02	473104.9	3673882.8	80.0	4.65
4.65	YES		NO				
L0000108		0	0.25063E-02	473105.4	3673872.8	82.6	4.65
4.65	YES		NO				
L0000109		0	0.25063E-02	473098.4	3673868.4	83.8	4.65
4.65	YES		NO				
L0000110		0	0.25063E-02	473088.7	3673866.0	84.4	4.65
4.65	YES		NO				
L0000111		0	0.25063E-02	473079.0	3673863.5	85.1	4.65
4.65	YES		NO				
L0000112		0	0.25063E-02	473069.3	3673861.1	85.8	4.65
4.65	YES		NO				
L0000113		0	0.25063E-02	473059.6	3673858.6	86.3	4.65
4.65	YES		NO				
L0000114		0	0.25063E-02	473049.9	3673856.1	86.6	4.65
4.65	YES		NO				
L0000115		0	0.25063E-02	473040.2	3673853.7	86.9	4.65
4.65	YES		NO				
L0000116		0	0.25063E-02	473030.5	3673851.2	86.8	4.65
4.65	YES		NO				
L0000117		0	0.25063E-02	473020.8	3673848.7	86.1	4.65
4.65	YES		NO				
L0000118		0	0.25063E-02	473011.1	3673846.3	85.2	4.65
4.65	YES		NO				
L0000119		0	0.25063E-02	473001.4	3673843.8	83.5	4.65
4.65	YES		NO				
L0000120		0	0.25063E-02	472991.8	3673841.4	81.6	4.65
4.65	YES		NO				

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000121		0	0.25063E-02	472982.1	3673838.9	79.6	5.00	4.65
4.65	YES		NO					
L0000122		0	0.25063E-02	472972.4	3673836.4	77.3	5.00	4.65
4.65	YES		NO					
L0000123		0	0.25063E-02	472962.7	3673834.0	75.1	5.00	4.65
4.65	YES		NO					
L0000124		0	0.25063E-02	472953.0	3673831.5	73.3	5.00	4.65
4.65	YES		NO					
L0000125		0	0.25063E-02	472943.3	3673829.0	71.7	5.00	4.65
4.65	YES		NO					
L0000126		0	0.25063E-02	472933.6	3673826.6	70.3	5.00	4.65
4.65	YES		NO					
L0000127		0	0.25063E-02	472923.9	3673824.1	69.6	5.00	4.65
4.65	YES		NO					
L0000128		0	0.25063E-02	472914.2	3673821.7	69.0	5.00	4.65
4.65	YES		NO					
L0000129		0	0.25063E-02	472904.5	3673819.2	68.3	5.00	4.65
4.65	YES		NO					
L0000130		0	0.25063E-02	472894.8	3673816.7	67.9	5.00	4.65
4.65	YES		NO					
L0000131		0	0.25063E-02	472887.8	3673818.8	67.2	5.00	4.65
4.65	YES		NO					
L0000132		0	0.25063E-02	472885.4	3673828.5	66.4	5.00	4.65
4.65	YES		NO					
L0000133		0	0.25063E-02	472883.0	3673838.2	65.6	5.00	4.65
4.65	YES		NO					
L0000134		0	0.25063E-02	472880.6	3673847.9	64.9	5.00	4.65
4.65	YES		NO					
L0000135		0	0.25063E-02	472878.1	3673857.6	64.8	5.00	4.65
4.65	YES		NO					
L0000136		0	0.25063E-02	472883.0	3673863.7	65.0	5.00	4.65
4.65	YES		NO					
L0000137		0	0.25063E-02	472892.2	3673867.6	65.0	5.00	4.65
4.65	YES		NO					
L0000138		0	0.25063E-02	472901.4	3673871.6	64.7	5.00	4.65
4.65	YES		NO					
L0000139		0	0.25063E-02	472910.6	3673875.5	64.5	5.00	4.65
4.65	YES		NO					
L0000140		0	0.25063E-02	472919.7	3673879.5	64.8	5.00	4.65

4.65	YES		NO				
L0000141		0	0.25063E-02	472928.9	3673883.4	65.1	5.00
4.65	YES		NO				4.65
L0000142		0	0.25063E-02	472938.1	3673887.4	65.7	5.00
4.65	YES		NO				4.65
L0000143		0	0.25063E-02	472947.3	3673891.3	66.2	5.00
4.65	YES		NO				4.65
L0000144		0	0.25063E-02	472956.5	3673895.3	66.6	5.00
4.65	YES		NO				4.65
L0000145		0	0.25063E-02	472965.7	3673899.2	67.4	5.00
4.65	YES		NO				4.65
L0000146		0	0.25063E-02	472974.9	3673903.2	67.7	5.00
4.65	YES		NO				4.65
L0000147		0	0.25063E-02	472984.1	3673907.1	67.4	5.00
4.65	YES		NO				4.65
L0000148		0	0.25063E-02	472993.2	3673911.1	67.2	5.00
4.65	YES		NO				4.65
L0000149		0	0.25063E-02	473002.4	3673915.0	67.6	5.00
4.65	YES		NO				4.65
L0000150		0	0.25063E-02	473011.6	3673919.0	68.3	5.00
4.65	YES		NO				4.65
L0000151		0	0.25063E-02	473020.8	3673922.9	68.8	5.00
4.65	YES		NO				4.65
L0000152		0	0.25063E-02	473030.0	3673926.9	69.0	5.00
4.65	YES		NO				4.65
L0000153		0	0.25063E-02	473039.2	3673930.8	68.8	5.00
4.65	YES		NO				4.65
L0000154		0	0.25063E-02	473048.4	3673934.7	68.4	5.00
4.65	YES		NO				4.65
L0000155		0	0.25063E-02	473057.6	3673938.7	68.0	5.00
4.65	YES		NO				4.65
L0000156		0	0.25063E-02	473066.7	3673942.6	67.5	5.00
4.65	YES		NO				4.65
L0000157		0	0.25063E-02	473075.9	3673946.6	67.8	5.00
4.65	YES		NO				4.65
L0000158		0	0.25063E-02	473085.1	3673950.5	68.1	5.00
4.65	YES		NO				4.65
L0000159		0	0.25063E-02	473094.3	3673954.5	68.5	5.00
4.65	YES		NO				4.65
L0000160		0	0.25063E-02	473095.3	3673947.2	69.0	5.00
4.65	YES		NO				4.65

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*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0000161		0	0.25063E-02	473086.0	3673943.3	68.4	5.00	4.65
4.65	YES		NO					
L0000162		0	0.25063E-02	473076.8	3673939.5	68.5	5.00	4.65
4.65	YES		NO					
L0000163		0	0.25063E-02	473067.5	3673935.7	68.9	5.00	4.65
4.65	YES		NO					
L0000164		0	0.25063E-02	473058.3	3673931.9	69.3	5.00	4.65
4.65	YES		NO					
L0000165		0	0.25063E-02	473049.1	3673928.1	69.7	5.00	4.65
4.65	YES		NO					
L0000166		0	0.25063E-02	473039.8	3673924.3	70.0	5.00	4.65
4.65	YES		NO					
L0000167		0	0.25063E-02	473030.6	3673920.5	70.0	5.00	4.65
4.65	YES		NO					
L0000168		0	0.25063E-02	473021.3	3673916.6	69.5	5.00	4.65
4.65	YES		NO					
L0000169		0	0.25063E-02	473012.1	3673912.8	68.7	5.00	4.65
4.65	YES		NO					
L0000170		0	0.25063E-02	473002.8	3673909.0	68.8	5.00	4.65
4.65	YES		NO					
L0000171		0	0.25063E-02	472993.6	3673905.2	69.0	5.00	4.65
4.65	YES		NO					
L0000172		0	0.25063E-02	472984.4	3673901.4	68.9	5.00	4.65
4.65	YES		NO					
L0000173		0	0.25063E-02	472975.1	3673897.6	68.8	5.00	4.65
4.65	YES		NO					
L0000174		0	0.25063E-02	472965.9	3673893.7	68.0	5.00	4.65
4.65	YES		NO					
L0000175		0	0.25063E-02	472956.6	3673889.9	66.8	5.00	4.65
4.65	YES		NO					
L0000176		0	0.25063E-02	472947.4	3673886.1	66.3	5.00	4.65
4.65	YES		NO					
L0000177		0	0.25063E-02	472938.1	3673882.3	65.8	5.00	4.65
4.65	YES		NO					
L0000178		0	0.25063E-02	472928.9	3673878.5	65.4	5.00	4.65
4.65	YES		NO					
L0000179		0	0.25063E-02	472919.7	3673874.7	65.1	5.00	4.65
4.65	YES		NO					
L0000180		0	0.25063E-02	472910.4	3673870.9	64.9	5.00	4.65

4.65	YES		NO				
L0000181		0	0.25063E-02	472901.2	3673867.0	65.0	5.00
4.65	YES		NO				4.65
L0000182		0	0.25063E-02	472891.9	3673863.2	65.1	5.00
4.65	YES		NO				4.65
L0000183		0	0.25063E-02	472882.8	3673859.3	64.9	5.00
4.65	YES		NO				4.65
L0000184		0	0.25063E-02	472885.4	3673849.7	65.1	5.00
4.65	YES		NO				4.65
L0000185		0	0.25063E-02	472887.9	3673840.0	65.9	5.00
4.65	YES		NO				4.65
L0000186		0	0.25063E-02	472890.4	3673830.3	66.6	5.00
4.65	YES		NO				4.65
L0000187		0	0.25063E-02	472894.1	3673822.5	67.3	5.00
4.65	YES		NO				4.65
L0000188		0	0.25063E-02	472903.8	3673824.9	67.8	5.00
4.65	YES		NO				4.65
L0000189		0	0.25063E-02	472913.5	3673827.3	68.5	5.00
4.65	YES		NO				4.65
L0000190		0	0.25063E-02	472923.2	3673829.7	69.0	5.00
4.65	YES		NO				4.65
L0000191		0	0.25063E-02	472933.0	3673832.1	69.6	5.00
4.65	YES		NO				4.65
L0000192		0	0.25063E-02	472942.7	3673834.4	71.1	5.00
4.65	YES		NO				4.65
L0000193		0	0.25063E-02	472952.4	3673836.8	72.9	5.00
4.65	YES		NO				4.65
L0000194		0	0.25063E-02	472962.1	3673839.2	74.8	5.00
4.65	YES		NO				4.65
L0000195		0	0.25063E-02	472971.8	3673841.6	77.0	5.00
4.65	YES		NO				4.65
L0000196		0	0.25063E-02	472981.5	3673843.9	79.3	5.00
4.65	YES		NO				4.65
L0000197		0	0.25063E-02	472991.2	3673846.3	81.3	5.00
4.65	YES		NO				4.65
L0000198		0	0.25063E-02	473000.9	3673848.7	83.1	5.00
4.65	YES		NO				4.65
L0000199		0	0.25063E-02	473010.7	3673851.1	84.8	5.00
4.65	YES		NO				4.65
L0000200		0	0.25063E-02	473020.4	3673853.5	85.3	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000201	0	0.25063E-02	473030.1	3673855.8	85.7	5.00	4.65
4.65 YES		NO					
L0000202	0	0.25063E-02	473039.8	3673858.2	85.8	5.00	4.65
4.65 YES		NO					
L0000203	0	0.25063E-02	473049.5	3673860.6	85.5	5.00	4.65
4.65 YES		NO					
L0000204	0	0.25063E-02	473059.2	3673863.0	85.2	5.00	4.65
4.65 YES		NO					
L0000205	0	0.25063E-02	473068.9	3673865.4	84.7	5.00	4.65
4.65 YES		NO					
L0000206	0	0.25063E-02	473078.7	3673867.7	84.0	5.00	4.65
4.65 YES		NO					
L0000207	0	0.25063E-02	473088.4	3673870.1	83.4	5.00	4.65
4.65 YES		NO					
L0000208	0	0.25063E-02	473098.1	3673872.5	82.7	5.00	4.65
4.65 YES		NO					
L0000209	0	0.25063E-02	473099.9	3673880.7	80.6	5.00	4.65
4.65 YES		NO					
L0000210	0	0.25063E-02	473099.2	3673890.7	78.4	5.00	4.65
4.65 YES		NO					
L0000211	0	0.25063E-02	473098.6	3673900.7	76.2	5.00	4.65
4.65 YES		NO					
L0000212	0	0.25063E-02	473097.9	3673910.6	74.0	5.00	4.65
4.65 YES		NO					
L0000213	0	0.25063E-02	473097.3	3673920.6	72.4	5.00	4.65
4.65 YES		NO					
L0000214	0	0.25063E-02	473096.6	3673930.6	71.0	5.00	4.65
4.65 YES		NO					
L0000215	0	0.25063E-02	473096.0	3673940.6	69.6	5.00	4.65
4.65 YES		NO					
L0000216	0	0.25063E-02	473089.0	3673940.3	68.9	5.00	4.65
4.65 YES		NO					
L0000217	0	0.25063E-02	473079.7	3673936.4	69.1	5.00	4.65
4.65 YES		NO					
L0000218	0	0.25063E-02	473070.5	3673932.5	69.5	5.00	4.65
4.65 YES		NO					
L0000219	0	0.25063E-02	473061.3	3673928.7	70.0	5.00	4.65
4.65 YES		NO					
L0000220	0	0.25063E-02	473052.1	3673924.8	70.4	5.00	4.65

4.65	YES		NO				
L0000221		0	0.25063E-02	473042.9	3673920.9	70.8	5.00
4.65	YES		NO				4.65
L0000222		0	0.25063E-02	473033.6	3673917.1	70.9	5.00
4.65	YES		NO				4.65
L0000223		0	0.25063E-02	473024.4	3673913.2	70.3	5.00
4.65	YES		NO				4.65
L0000224		0	0.25063E-02	473015.2	3673909.3	70.1	5.00
4.65	YES		NO				4.65
L0000225		0	0.25063E-02	473006.0	3673905.4	70.3	5.00
4.65	YES		NO				4.65
L0000226		0	0.25063E-02	472996.8	3673901.6	70.4	5.00
4.65	YES		NO				4.65
L0000227		0	0.25063E-02	472987.5	3673897.7	70.3	5.00
4.65	YES		NO				4.65
L0000228		0	0.25063E-02	472978.3	3673893.8	70.0	5.00
4.65	YES		NO				4.65
L0000229		0	0.25063E-02	472969.1	3673890.0	69.0	5.00
4.65	YES		NO				4.65
L0000230		0	0.25063E-02	472959.9	3673886.1	67.3	5.00
4.65	YES		NO				4.65
L0000231		0	0.25063E-02	472950.6	3673882.2	66.6	5.00
4.65	YES		NO				4.65
L0000232		0	0.25063E-02	472941.4	3673878.4	66.4	5.00
4.65	YES		NO				4.65
L0000233		0	0.25063E-02	472932.2	3673874.5	65.9	5.00
4.65	YES		NO				4.65
L0000234		0	0.25063E-02	472923.0	3673870.6	65.6	5.00
4.65	YES		NO				4.65
L0000235		0	0.25063E-02	472913.8	3673866.8	65.4	5.00
4.65	YES		NO				4.65
L0000236		0	0.25063E-02	472904.5	3673862.9	65.3	5.00
4.65	YES		NO				4.65
L0000237		0	0.25063E-02	472895.3	3673859.0	65.3	5.00
4.65	YES		NO				4.65
L0000238		0	0.25063E-02	472888.6	3673854.0	65.2	5.00
4.65	YES		NO				4.65
L0000239		0	0.25063E-02	472891.5	3673844.4	65.8	5.00
4.65	YES		NO				4.65
L0000240		0	0.25063E-02	472894.3	3673834.8	66.6	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000241		0	0.25063E-02	472900.8	3673831.4	67.2	5.00	4.65
4.65	YES		NO					
L0000242		0	0.25063E-02	472910.5	3673833.6	67.8	5.00	4.65
4.65	YES		NO					
L0000243		0	0.25063E-02	472920.2	3673835.9	68.3	5.00	4.65
4.65	YES		NO					
L0000244		0	0.25063E-02	472930.0	3673838.2	68.7	5.00	4.65
4.65	YES		NO					
L0000245		0	0.25063E-02	472939.7	3673840.4	70.1	5.00	4.65
4.65	YES		NO					
L0000246		0	0.25063E-02	472949.5	3673842.7	71.9	5.00	4.65
4.65	YES		NO					
L0000247		0	0.25063E-02	472959.2	3673845.0	73.9	5.00	4.65
4.65	YES		NO					
L0000248		0	0.25063E-02	472968.9	3673847.2	76.2	5.00	4.65
4.65	YES		NO					
L0000249		0	0.25063E-02	472978.7	3673849.5	78.5	5.00	4.65
4.65	YES		NO					
L0000250		0	0.25063E-02	472988.4	3673851.8	80.5	5.00	4.65
4.65	YES		NO					
L0000251		0	0.25063E-02	472998.2	3673854.0	81.9	5.00	4.65
4.65	YES		NO					
L0000252		0	0.25063E-02	473007.9	3673856.3	83.3	5.00	4.65
4.65	YES		NO					
L0000253		0	0.25063E-02	473017.6	3673858.6	84.0	5.00	4.65
4.65	YES		NO					
L0000254		0	0.25063E-02	473027.4	3673860.8	84.3	5.00	4.65
4.65	YES		NO					
L0000255		0	0.25063E-02	473037.1	3673863.1	84.6	5.00	4.65
4.65	YES		NO					
L0000256		0	0.25063E-02	473046.9	3673865.4	84.3	5.00	4.65
4.65	YES		NO					
L0000257		0	0.25063E-02	473056.6	3673867.6	84.0	5.00	4.65
4.65	YES		NO					
L0000258		0	0.25063E-02	473066.3	3673869.9	83.5	5.00	4.65
4.65	YES		NO					
L0000259		0	0.25063E-02	473076.1	3673872.3	82.9	5.00	4.65
4.65	YES		NO					
L0000260		0	0.25063E-02	473085.8	3673874.7	82.2	5.00	4.65

4.65	YES		NO				
L0000261		0	0.25063E-02	473094.7	3673877.6	81.4	5.00 4.65
4.65	YES		NO				
L0000262		0	0.25063E-02	473093.5	3673887.5	79.0	5.00 4.65
4.65	YES		NO				
L0000263		0	0.25063E-02	473092.3	3673897.5	76.6	5.00 4.65
4.65	YES		NO				
L0000264		0	0.25063E-02	473091.1	3673907.4	74.1	5.00 4.65
4.65	YES		NO				
L0000265		0	0.25063E-02	473089.9	3673917.3	72.1	5.00 4.65
4.65	YES		NO				
L0000266		0	0.25063E-02	473088.7	3673927.3	70.7	5.00 4.65
4.65	YES		NO				
L0000267		0	0.25063E-02	473085.9	3673934.3	69.6	5.00 4.65
4.65	YES		NO				
L0000268		0	0.25063E-02	473076.7	3673930.4	70.0	5.00 4.65
4.65	YES		NO				
L0000269		0	0.25063E-02	473067.5	3673926.5	70.6	5.00 4.65
4.65	YES		NO				
L0000270		0	0.25063E-02	473058.3	3673922.6	71.1	5.00 4.65
4.65	YES		NO				
L0000271		0	0.25063E-02	473049.0	3673918.7	71.5	5.00 4.65
4.65	YES		NO				
L0000272		0	0.25063E-02	473039.8	3673914.8	71.8	5.00 4.65
4.65	YES		NO				
L0000273		0	0.25063E-02	473030.6	3673910.9	71.7	5.00 4.65
4.65	YES		NO				
L0000274		0	0.25063E-02	473021.4	3673907.0	71.6	5.00 4.65
4.65	YES		NO				
L0000275		0	0.25063E-02	473012.2	3673903.1	71.8	5.00 4.65
4.65	YES		NO				
L0000276		0	0.25063E-02	473003.0	3673899.2	71.9	5.00 4.65
4.65	YES		NO				
L0000277		0	0.25063E-02	472993.8	3673895.3	71.8	5.00 4.65
4.65	YES		NO				
L0000278		0	0.25063E-02	472984.6	3673891.4	71.6	5.00 4.65
4.65	YES		NO				
L0000279		0	0.25063E-02	472975.4	3673887.5	70.7	5.00 4.65
4.65	YES		NO				
L0000280		0	0.25063E-02	472966.2	3673883.6	69.0	5.00 4.65
4.65	YES		NO				

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0000281		0	0.25063E-02	472957.0	3673879.7	67.5	5.00	4.65
4.65	YES		NO					
L0000282		0	0.25063E-02	472947.7	3673875.9	67.3	5.00	4.65
4.65	YES		NO					
L0000283		0	0.25063E-02	472938.5	3673872.0	66.8	5.00	4.65
4.65	YES		NO					
L0000284		0	0.25063E-02	472929.3	3673868.1	66.1	5.00	4.65
4.65	YES		NO					
L0000285		0	0.25063E-02	472920.1	3673864.2	65.9	5.00	4.65
4.65	YES		NO					
L0000286		0	0.25063E-02	472910.9	3673860.3	65.8	5.00	4.65
4.65	YES		NO					
L0000287		0	0.25063E-02	472901.7	3673856.4	65.7	5.00	4.65
4.65	YES		NO					
L0000288		0	0.25063E-02	472895.8	3673850.9	65.7	5.00	4.65
4.65	YES		NO					
L0000289		0	0.25063E-02	472898.5	3673841.3	66.5	5.00	4.65
4.65	YES		NO					
L0000290		0	0.25063E-02	472906.5	3673840.5	67.0	5.00	4.65
4.65	YES		NO					
L0000291		0	0.25063E-02	472916.3	3673842.7	67.4	5.00	4.65
4.65	YES		NO					
L0000292		0	0.25063E-02	472926.0	3673844.9	67.8	5.00	4.65
4.65	YES		NO					
L0000293		0	0.25063E-02	472935.8	3673847.1	68.6	5.00	4.65
4.65	YES		NO					
L0000294		0	0.25063E-02	472945.5	3673849.3	70.6	5.00	4.65
4.65	YES		NO					
L0000295		0	0.25063E-02	472955.3	3673851.5	72.6	5.00	4.65
4.65	YES		NO					
L0000296		0	0.25063E-02	472965.1	3673853.7	74.6	5.00	4.65
4.65	YES		NO					
L0000297		0	0.25063E-02	472974.8	3673855.9	76.5	5.00	4.65
4.65	YES		NO					
L0000298		0	0.25063E-02	472984.6	3673858.1	78.6	5.00	4.65
4.65	YES		NO					
L0000299		0	0.25063E-02	472994.3	3673860.3	80.0	5.00	4.65
4.65	YES		NO					
L0000300		0	0.25063E-02	473004.1	3673862.5	81.4	5.00	4.65

4.65	YES		NO				
L0000301		0	0.25063E-02	473013.8	3673864.7	82.4	5.00
4.65	YES		NO				4.65
L0000302		0	0.25063E-02	473023.6	3673866.8	82.7	5.00
4.65	YES		NO				4.65
L0000303		0	0.25063E-02	473033.4	3673869.0	82.9	5.00
4.65	YES		NO				4.65
L0000304		0	0.25063E-02	473043.1	3673871.2	82.8	5.00
4.65	YES		NO				4.65
L0000305		0	0.25063E-02	473052.9	3673873.4	82.4	5.00
4.65	YES		NO				4.65
L0000306		0	0.25063E-02	473062.6	3673875.6	82.1	5.00
4.65	YES		NO				4.65
L0000307		0	0.25063E-02	473072.4	3673877.8	81.5	5.00
4.65	YES		NO				4.65
L0000308		0	0.25063E-02	473082.1	3673880.0	80.9	5.00
4.65	YES		NO				4.65
L0000309		0	0.25063E-02	473088.0	3673884.9	79.6	5.00
4.65	YES		NO				4.65
L0000310		0	0.25063E-02	473086.4	3673894.7	77.1	5.00
4.65	YES		NO				4.65
L0000311		0	0.25063E-02	473084.9	3673904.6	74.7	5.00
4.65	YES		NO				4.65
L0000312		0	0.25063E-02	473083.3	3673914.5	72.5	5.00
4.65	YES		NO				4.65
L0000313		0	0.25063E-02	473081.8	3673924.4	71.0	5.00
4.65	YES		NO				4.65
L0000314		0	0.25063E-02	473075.5	3673925.7	70.8	5.00
4.65	YES		NO				4.65
L0000315		0	0.25063E-02	473066.3	3673921.8	71.4	5.00
4.65	YES		NO				4.65
L0000316		0	0.25063E-02	473057.1	3673917.9	72.0	5.00
4.65	YES		NO				4.65
L0000317		0	0.25063E-02	473047.9	3673914.0	72.3	5.00
4.65	YES		NO				4.65
L0000318		0	0.25063E-02	473038.7	3673910.1	72.8	5.00
4.65	YES		NO				4.65
L0000319		0	0.25063E-02	473029.5	3673906.2	72.8	5.00
4.65	YES		NO				4.65
L0000320		0	0.25063E-02	473020.2	3673902.3	72.9	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000321		0	0.25063E-02	473011.0	3673898.4	73.2	5.00	4.65
4.65	YES		NO					
L0000322		0	0.25063E-02	473001.8	3673894.5	73.2	5.00	4.65
4.65	YES		NO					
L0000323		0	0.25063E-02	472992.6	3673890.5	73.1	5.00	4.65
4.65	YES		NO					
L0000324		0	0.25063E-02	472983.4	3673886.6	72.7	5.00	4.65
4.65	YES		NO					
L0000325		0	0.25063E-02	472974.2	3673882.7	71.3	5.00	4.65
4.65	YES		NO					
L0000326		0	0.25063E-02	472965.0	3673878.8	69.5	5.00	4.65
4.65	YES		NO					
L0000327		0	0.25063E-02	472955.8	3673874.9	68.3	5.00	4.65
4.65	YES		NO					
L0000328		0	0.25063E-02	472946.6	3673871.0	67.9	5.00	4.65
4.65	YES		NO					
L0000329		0	0.25063E-02	472937.4	3673867.1	67.1	5.00	4.65
4.65	YES		NO					
L0000330		0	0.25063E-02	472928.2	3673863.2	66.4	5.00	4.65
4.65	YES		NO					
L0000331		0	0.25063E-02	472919.0	3673859.3	66.3	5.00	4.65
4.65	YES		NO					
L0000332		0	0.25063E-02	472909.8	3673855.4	66.1	5.00	4.65
4.65	YES		NO					
L0000333		0	0.25063E-02	472903.5	3673849.9	66.2	5.00	4.65
4.65	YES		NO					
L0000334		0	0.25063E-02	472910.5	3673848.0	66.7	5.00	4.65
4.65	YES		NO					
L0000335		0	0.25063E-02	472920.3	3673850.2	67.0	5.00	4.65
4.65	YES		NO					
L0000336		0	0.25063E-02	472930.1	3673852.3	67.3	5.00	4.65
4.65	YES		NO					
L0000337		0	0.25063E-02	472939.8	3673854.5	68.8	5.00	4.65
4.65	YES		NO					
L0000338		0	0.25063E-02	472949.6	3673856.6	70.5	5.00	4.65
4.65	YES		NO					
L0000339		0	0.25063E-02	472959.4	3673858.8	72.1	5.00	4.65
4.65	YES		NO					
L0000340		0	0.25063E-02	472969.1	3673861.0	74.1	5.00	4.65

4.65	YES		NO				
L0000341		0	0.25063E-02	472978.9	3673863.1	76.2	5.00
4.65	YES		NO				4.65
L0000342		0	0.25063E-02	472988.7	3673865.3	78.0	5.00
4.65	YES		NO				4.65
L0000343		0	0.25063E-02	472998.4	3673867.4	79.4	5.00
4.65	YES		NO				4.65
L0000344		0	0.25063E-02	473008.2	3673869.6	80.7	5.00
4.65	YES		NO				4.65
L0000345		0	0.25063E-02	473018.0	3673871.7	81.2	5.00
4.65	YES		NO				4.65
L0000346		0	0.25063E-02	473027.7	3673873.9	81.4	5.00
4.65	YES		NO				4.65
L0000347		0	0.25063E-02	473037.5	3673876.1	81.5	5.00
4.65	YES		NO				4.65
L0000348		0	0.25063E-02	473047.2	3673878.2	81.1	5.00
4.65	YES		NO				4.65
L0000349		0	0.25063E-02	473057.0	3673880.4	80.8	5.00
4.65	YES		NO				4.65
L0000350		0	0.25063E-02	473066.8	3673882.5	80.3	5.00
4.65	YES		NO				4.65
L0000351		0	0.25063E-02	473076.5	3673884.7	79.8	5.00
4.65	YES		NO				4.65
L0000352		0	0.25063E-02	473081.5	3673890.1	78.4	5.00
4.65	YES		NO				4.65
L0000353		0	0.25063E-02	473079.7	3673899.9	76.0	5.00
4.65	YES		NO				4.65
L0000354		0	0.25063E-02	473077.9	3673909.8	73.5	5.00
4.65	YES		NO				4.65
L0000355		0	0.25063E-02	473076.2	3673919.6	71.8	5.00
4.65	YES		NO				4.65
L0000356		0	0.25063E-02	473067.9	3673917.5	72.2	5.00
4.65	YES		NO				4.65
L0000357		0	0.25063E-02	473058.6	3673913.6	72.9	5.00
4.65	YES		NO				4.65
L0000358		0	0.25063E-02	473049.4	3673909.8	73.3	5.00
4.65	YES		NO				4.65
L0000359		0	0.25063E-02	473040.2	3673906.0	73.9	5.00
4.65	YES		NO				4.65
L0000360		0	0.25063E-02	473030.9	3673902.1	74.1	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000361	0	0.25063E-02	473021.7	3673898.3	74.3	5.00	4.65
4.65 YES		NO					
L0000362	0	0.25063E-02	473012.5	3673894.5	74.6	5.00	4.65
4.65 YES		NO					
L0000363	0	0.25063E-02	473003.2	3673890.6	74.6	5.00	4.65
4.65 YES		NO					
L0000364	0	0.25063E-02	472994.0	3673886.8	74.4	5.00	4.65
4.65 YES		NO					
L0000365	0	0.25063E-02	472984.8	3673882.9	74.0	5.00	4.65
4.65 YES		NO					
L0000366	0	0.25063E-02	472975.5	3673879.1	72.3	5.00	4.65
4.65 YES		NO					
L0000367	0	0.25063E-02	472966.3	3673875.3	70.6	5.00	4.65
4.65 YES		NO					
L0000368	0	0.25063E-02	472957.0	3673871.4	69.1	5.00	4.65
4.65 YES		NO					
L0000369	0	0.25063E-02	472947.8	3673867.6	68.5	5.00	4.65
4.65 YES		NO					
L0000370	0	0.25063E-02	472938.6	3673863.8	67.6	5.00	4.65
4.65 YES		NO					
L0000371	0	0.25063E-02	472929.3	3673859.9	66.7	5.00	4.65
4.65 YES		NO					
L0000372	0	0.25063E-02	472922.4	3673855.5	66.7	5.00	4.65
4.65 YES		NO					
L0000373	0	0.25063E-02	472931.1	3673856.9	67.0	5.00	4.65
4.65 YES		NO					
L0000374	0	0.25063E-02	472940.3	3673860.6	68.2	5.00	4.65
4.65 YES		NO					
L0000375	0	0.25063E-02	472949.6	3673864.3	69.3	5.00	4.65
4.65 YES		NO					
L0000376	0	0.25063E-02	472958.9	3673868.0	70.1	5.00	4.65
4.65 YES		NO					
L0000377	0	0.25063E-02	472968.2	3673871.8	71.8	5.00	4.65
4.65 YES		NO					
L0000378	0	0.25063E-02	472977.5	3673875.5	73.5	5.00	4.65
4.65 YES		NO					
L0000379	0	0.25063E-02	472986.7	3673879.2	75.1	5.00	4.65
4.65 YES		NO					
L0000380	0	0.25063E-02	472996.0	3673882.9	75.8	5.00	4.65

4.65	YES		NO				
L0000381		0	0.25063E-02	473005.3	3673886.7	76.2	5.00
4.65	YES		NO				4.65
L0000382		0	0.25063E-02	473014.6	3673890.4	76.1	5.00
4.65	YES		NO				4.65
L0000383		0	0.25063E-02	473023.9	3673894.1	75.7	5.00
4.65	YES		NO				4.65
L0000384		0	0.25063E-02	473033.1	3673897.8	75.6	5.00
4.65	YES		NO				4.65
L0000385		0	0.25063E-02	473042.4	3673901.5	75.1	5.00
4.65	YES		NO				4.65
L0000386		0	0.25063E-02	473050.9	3673903.6	74.9	5.00
4.65	YES		NO				4.65
L0000387		0	0.25063E-02	473054.3	3673894.1	77.4	5.00
4.65	YES		NO				4.65
L0000388		0	0.25063E-02	473054.4	3673886.4	79.3	5.00
4.65	YES		NO				4.65
L0000389		0	0.25063E-02	473044.7	3673884.0	79.7	5.00
4.65	YES		NO				4.65
L0000390		0	0.25063E-02	473035.0	3673881.6	80.0	5.00
4.65	YES		NO				4.65
L0000391		0	0.25063E-02	473025.3	3673879.2	80.0	5.00
4.65	YES		NO				4.65
L0000392		0	0.25063E-02	473015.6	3673876.8	80.0	5.00
4.65	YES		NO				4.65
L0000393		0	0.25063E-02	473005.9	3673874.4	79.3	5.00
4.65	YES		NO				4.65
L0000394		0	0.25063E-02	472996.1	3673872.0	78.1	5.00
4.65	YES		NO				4.65
L0000395		0	0.25063E-02	472986.4	3673869.6	76.8	5.00
4.65	YES		NO				4.65
L0000396		0	0.25063E-02	472976.7	3673867.2	74.9	5.00
4.65	YES		NO				4.65
L0000397		0	0.25063E-02	472967.0	3673864.8	72.8	5.00
4.65	YES		NO				4.65
L0000398		0	0.25063E-02	472957.3	3673862.4	70.9	5.00
4.65	YES		NO				4.65
L0000399		0	0.25063E-02	472947.6	3673860.1	69.6	5.00

4.65 YES NO
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID		SOURCE IDs					
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ALL	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,	
L0000006	, L0000007	, L0000008	,				
	L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,	
L0000014	, L0000015	, L0000016	,				
	L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,	
L0000022	, L0000023	, L0000024	,				
	L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,	
L0000030	, L0000031	, L0000032	,				
	L0000033	, L0000034	, L0000035	, L0000036	, L0000037	,	
L0000038	, L0000039	, L0000040	,				
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L0000054	, L0000055	, L0000056	,				
	L0000057	, L0000058	, L0000059	, L0000060	, L0000061	,	
L0000062	, L0000063	, L0000064	,				
	L0000065	, L0000066	, L0000067	, L0000068	, L0000069	,	
L0000070	, L0000071	, L0000072	,				
	L0000073	, L0000074	, L0000075	, L0000076	, L0000077	,	
L0000078	, L0000079	, L0000080	,				
	L0000081	, L0000082	, L0000083	, L0000084	, L0000085	,	
L0000086	, L0000087	, L0000088	,				
	L0000089	, L0000090	, L0000091	, L0000092	, L0000093	,	
L0000094	, L0000095	, L0000096	,				
	L0000097	, L0000098	, L0000099	, L0000100	, L0000101	,	
L0000102	, L0000103	, L0000104	,				
	L0000105	, L0000106	, L0000107	, L0000108	, L0000109	,	
L0000110	, L0000111	, L0000112	,				
	L0000113	, L0000114	, L0000115	, L0000116	, L0000117	,	
L0000118	, L0000119	, L0000120	,				
	L0000121	, L0000122	, L0000123	, L0000124	, L0000125	,	

```

L0000126      , L0000127      , L0000128      ,
                L0000129      , L0000130      , L0000131      , L0000132      , L0000133      ,
L0000134      , L0000135      , L0000136      ,
                L0000137      , L0000138      , L0000139      , L0000140      , L0000141      ,
L0000142      , L0000143      , L0000144      ,
                L0000145      , L0000146      , L0000147      , L0000148      , L0000149      ,
L0000150      , L0000151      , L0000152      ,
                L0000153      , L0000154      , L0000155      , L0000156      , L0000157      ,
L0000158      , L0000159      , L0000160      ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs					
-----	-----					
L0000166	L0000161	, L0000162	, L0000163	, L0000164	, L0000165	,
	, L0000167	, L0000168	,			
L0000174	L0000169	, L0000170	, L0000171	, L0000172	, L0000173	,
	, L0000175	, L0000176	,			
L0000182	L0000177	, L0000178	, L0000179	, L0000180	, L0000181	,
	, L0000183	, L0000184	,			
L0000190	L0000185	, L0000186	, L0000187	, L0000188	, L0000189	,
	, L0000191	, L0000192	,			
L0000198	L0000193	, L0000194	, L0000195	, L0000196	, L0000197	,
	, L0000199	, L0000200	,			
L0000206	L0000201	, L0000202	, L0000203	, L0000204	, L0000205	,
	, L0000207	, L0000208	,			
L0000214	L0000209	, L0000210	, L0000211	, L0000212	, L0000213	,
	, L0000215	, L0000216	,			
	L0000217	, L0000218	, L0000219	, L0000220	, L0000221	,

L0000222	,	L0000223	,	L0000224	,	
		L0000225	,	L0000226	,	L0000227
L0000230	,	L0000231	,	L0000232	,	L0000228
						L0000229
		L0000233	,	L0000234	,	L0000235
L0000238	,	L0000239	,	L0000240	,	L0000236
						L0000237
		L0000241	,	L0000242	,	L0000243
L0000246	,	L0000247	,	L0000248	,	L0000244
						L0000245
		L0000249	,	L0000250	,	L0000251
L0000254	,	L0000255	,	L0000256	,	L0000252
						L0000253
		L0000257	,	L0000258	,	L0000259
L0000262	,	L0000263	,	L0000264	,	L0000260
						L0000261
		L0000265	,	L0000266	,	L0000267
L0000270	,	L0000271	,	L0000272	,	L0000268
						L0000269
		L0000273	,	L0000274	,	L0000275
L0000278	,	L0000279	,	L0000280	,	L0000276
						L0000277
		L0000281	,	L0000282	,	L0000283
L0000286	,	L0000287	,	L0000288	,	L0000284
						L0000285
		L0000289	,	L0000290	,	L0000291
L0000294	,	L0000295	,	L0000296	,	L0000292
						L0000293
		L0000297	,	L0000298	,	L0000299
L0000302	,	L0000303	,	L0000304	,	L0000300
						L0000301
		L0000305	,	L0000306	,	L0000307
L0000310	,	L0000311	,	L0000312	,	L0000308
						L0000309
		L0000313	,	L0000314	,	L0000315
L0000318	,	L0000319	,	L0000320	,	L0000316
						L0000317

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0000326	L0000321 , L0000327	, L0000322 , L0000328	, L0000323 ,	, L0000324	, L0000325	,
L0000334	L0000329 , L0000335	, L0000330 , L0000336	, L0000331 ,	, L0000332	, L0000333	,
L0000342	L0000337 , L0000343	, L0000338 , L0000344	, L0000339 ,	, L0000340	, L0000341	,
L0000350	L0000345 , L0000351	, L0000346 , L0000352	, L0000347 ,	, L0000348	, L0000349	,
L0000358	L0000353 , L0000359	, L0000354 , L0000360	, L0000355 ,	, L0000356	, L0000357	,
L0000366	L0000361 , L0000367	, L0000362 , L0000368	, L0000363 ,	, L0000364	, L0000365	,
L0000374	L0000369 , L0000375	, L0000370 , L0000376	, L0000371 ,	, L0000372	, L0000373	,
L0000382	L0000377 , L0000383	, L0000378 , L0000384	, L0000379 ,	, L0000380	, L0000381	,
L0000390	L0000385 , L0000391	, L0000386 , L0000392	, L0000387 ,	, L0000388	, L0000389	,
L0000398	L0000393 , L0000399	, L0000394 ,	, L0000395	, L0000396	, L0000397	,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000005	3276208.	L0000001 , L0000002 , L0000003 , L0000004 ,
L0000008	, L0000006	, L0000007 ,
	,	

L0000014	L0000009 , L0000015	, L0000010 , L0000016	, L0000011 ,	, L0000012	, L0000013	,
L0000022	L0000017 , L0000023	, L0000018 , L0000024	, L0000019 ,	, L0000020	, L0000021	,
L0000030	L0000025 , L0000031	, L0000026 , L0000032	, L0000027 ,	, L0000028	, L0000029	,
L0000038	L0000033 , L0000039	, L0000034 , L0000040	, L0000035 ,	, L0000036	, L0000037	,
L0000046	L0000041 , L0000047	, L0000042 , L0000048	, L0000043 ,	, L0000044	, L0000045	,
L0000054	L0000049 , L0000055	, L0000050 , L0000056	, L0000051 ,	, L0000052	, L0000053	,
L0000062	L0000057 , L0000063	, L0000058 , L0000064	, L0000059 ,	, L0000060	, L0000061	,
L0000070	L0000065 , L0000071	, L0000066 , L0000072	, L0000067 ,	, L0000068	, L0000069	,
L0000078	L0000073 , L0000079	, L0000074 , L0000080	, L0000075 ,	, L0000076	, L0000077	,
L0000086	L0000081 , L0000087	, L0000082 , L0000088	, L0000083 ,	, L0000084	, L0000085	,
L0000094	L0000089 , L0000095	, L0000090 , L0000096	, L0000091 ,	, L0000092	, L0000093	,
L0000102	L0000097 , L0000103	, L0000098 , L0000104	, L0000099 ,	, L0000100	, L0000101	,
L0000110	L0000105 , L0000111	, L0000106 , L0000112	, L0000107 ,	, L0000108	, L0000109	,
L0000118	L0000113 , L0000119	, L0000114 , L0000120	, L0000115 ,	, L0000116	, L0000117	,
L0000126	L0000121 , L0000127	, L0000122 , L0000128	, L0000123 ,	, L0000124	, L0000125	,
L0000134	L0000129 , L0000135	, L0000130 , L0000136	, L0000131 ,	, L0000132	, L0000133	,
	L0000137	, L0000138	, L0000139	, L0000140	, L0000141	,

L0000142 , L0000143 , L0000144 ,
 L0000145 , L0000146 , L0000147 , L0000148 , L0000149 ,
 L0000150 , L0000151 , L0000152 ,
 L0000153 , L0000154 , L0000155 , L0000156 , L0000157 ,
 L0000158 , L0000159 , L0000160 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000166	L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000167 , L0000168 ,	
L0000174	L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000175 , L0000176 ,	
L0000182	L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000183 , L0000184 ,	
L0000190	L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000191 , L0000192 ,	
L0000198	L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000199 , L0000200 ,	
L0000206	L0000201 , L0000202 , L0000203 , L0000204 , L0000205 , L0000207 , L0000208 ,	
L0000214	L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000215 , L0000216 ,	
L0000222	L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000223 , L0000224 ,	
L0000230	L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000231 , L0000232 ,	

L0000238	L0000233 , L0000239	, L0000234 , L0000240	, L0000235 ,	, L0000236	, L0000237	,
L0000246	L0000241 , L0000247	, L0000242 , L0000248	, L0000243 ,	, L0000244	, L0000245	,
L0000254	L0000249 , L0000255	, L0000250 , L0000256	, L0000251 ,	, L0000252	, L0000253	,
L0000262	L0000257 , L0000263	, L0000258 , L0000264	, L0000259 ,	, L0000260	, L0000261	,
L0000270	L0000265 , L0000271	, L0000266 , L0000272	, L0000267 ,	, L0000268	, L0000269	,
L0000278	L0000273 , L0000279	, L0000274 , L0000280	, L0000275 ,	, L0000276	, L0000277	,
L0000286	L0000281 , L0000287	, L0000282 , L0000288	, L0000283 ,	, L0000284	, L0000285	,
L0000294	L0000289 , L0000295	, L0000290 , L0000296	, L0000291 ,	, L0000292	, L0000293	,
L0000302	L0000297 , L0000303	, L0000298 , L0000304	, L0000299 ,	, L0000300	, L0000301	,
L0000310	L0000305 , L0000311	, L0000306 , L0000312	, L0000307 ,	, L0000308	, L0000309	,
L0000318	L0000313 , L0000319	, L0000314 , L0000320	, L0000315 ,	, L0000316	, L0000317	,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000326	L0000321 , L0000327	, L0000322 , L0000328
		, L0000323 ,
		, L0000324
		, L0000325

L0000334	L0000329 , L0000335	, L0000330 , L0000336	, L0000331 ,	, L0000332	, L0000333	,
L0000342	L0000337 , L0000343	, L0000338 , L0000344	, L0000339 ,	, L0000340	, L0000341	,
L0000350	L0000345 , L0000351	, L0000346 , L0000352	, L0000347 ,	, L0000348	, L0000349	,
L0000358	L0000353 , L0000359	, L0000354 , L0000360	, L0000355 ,	, L0000356	, L0000357	,
L0000366	L0000361 , L0000367	, L0000362 , L0000368	, L0000363 ,	, L0000364	, L0000365	,
L0000374	L0000369 , L0000375	, L0000370 , L0000376	, L0000371 ,	, L0000372	, L0000373	,
L0000382	L0000377 , L0000383	, L0000378 , L0000384	, L0000379 ,	, L0000380	, L0000381	,
L0000390	L0000385 , L0000391	, L0000386 , L0000392	, L0000387 ,	, L0000388	, L0000389	,
L0000398	L0000393 , L0000399	, L0000394 ,	, L0000395	, L0000396	, L0000397	,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

*** X-COORDINATES OF GRID ***
 (METERS)

473456.9, 473480.5, 473504.0, 473527.6, 473551.2, 473574.8, 473598.4,
 473622.0, 473645.5, 473669.1,
 473692.7, 473716.3, 473739.9, 473763.4, 473787.0, 473810.6, 473834.2,
 473857.8, 473881.3, 473904.9,
 473928.5,

*** Y-COORDINATES OF GRID ***

(METERS)

3673271.4, 3673312.2, 3673352.9, 3673393.6, 3673434.4, 3673475.1, 3673515.9,
3673556.6, 3673597.3, 3673638.1,
3673678.8, 3673719.6, 3673760.3, 3673801.0, 3673841.8, 3673882.5, 3673923.3,
3673964.0, 3674004.7, 3674045.5,
3674086.2,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	473456.89	473480.47	473504.05	473527.63	473551.21	
473574.79	473598.37	473621.95	473645.53			

- - - - -
- - - - -

3674086.23		72.60	77.40	77.30	77.30	79.10
79.20	79.70	84.80	91.00			
3674045.49		73.90	77.90	77.50	78.40	81.80
81.90	82.20	87.20	91.80			
3674004.75		75.90	79.20	79.50	80.80	82.30
83.30	84.00	87.70	91.40			
3673964.01		77.80	79.20	79.80	80.90	82.00
83.20	84.30	87.00	89.70			
3673923.27		79.90	80.30	80.00	80.70	83.40
83.90	84.80	86.70	88.50			
3673882.53		82.10	81.90	81.40	81.90	85.50
85.40	85.70	87.70	93.10			
3673841.79		84.90	84.30	84.70	85.20	86.80
87.50	90.60	96.50	99.50			
3673801.05		88.10	87.70	89.80	90.90	91.40
93.00	95.80	97.20	97.80			
3673760.31		92.40	91.60	93.60	94.10	94.30
94.50	95.10	96.00	100.50			
3673719.57		94.80	94.40	94.60	94.40	95.30
96.30	96.90	101.80	106.90			
3673678.83		98.70	98.70	99.30	98.40	100.00
102.50	103.80	105.30	106.70			
3673638.09		100.70	99.90	99.60	99.70	100.30
101.70	103.50	104.60	106.20			

3673597.35		106.20	103.80	103.00	103.20	102.80
103.50		104.70	106.30	111.10		
3673556.61		110.40	111.10	111.70	111.70	111.10
109.60		108.90	109.50	111.00		
3673515.87		111.10	111.50	112.00	113.00	111.30
110.50		109.50	109.60	110.30		
3673475.13		119.10	117.70	116.80	115.80	116.30
116.20		115.20	114.30	113.50		
3673434.39		119.70	117.60	116.60	116.10	116.20
115.70		114.90	114.00	113.00		
3673393.65		121.70	120.70	116.90	116.20	116.50
115.20		114.70	114.20	113.30		
3673352.91		121.60	121.00	116.70	115.80	116.10
114.90		114.00	114.20	113.70		
3673312.17		119.40	118.20	116.30	115.40	115.90
114.30		113.30	113.50	112.90		
3673271.43		115.90	115.70	115.40	114.90	114.70
113.90		112.80	111.90	110.80		

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD		X-COORD (METERS)				
(METERS)		473669.11	473692.69	473716.27	473739.85	473763.43
473787.01		473810.59	473834.17	473857.75		

3674086.23		93.60	93.50	93.90	94.20	94.50
96.90		98.40	102.10	103.20		
3674045.49		93.00	93.20	94.30	95.90	97.20
99.80		100.80	101.80	103.00		
3674004.75		92.40	92.50	93.90	95.80	97.30
98.80		100.40	103.30	105.00		
3673964.01		91.10	92.30	94.50	96.30	97.80
100.00		101.50	103.60	108.90		
3673923.27		90.40	92.70	94.40	96.20	100.00
100.60		101.40	103.80	108.40		
3673882.53		98.20	100.30	101.10	101.70	102.50
102.50		102.90	104.80	107.00		
3673841.79		99.60	99.90	100.70	101.90	104.00

105.00	106.10	108.60	110.50			
3673801.05	98.80	101.60	105.80	109.10	112.80	
115.00	115.70	116.10	116.10			
3673760.31	106.70	110.90	112.60	113.90	115.90	
116.80	117.60	117.90	117.30			
3673719.57	109.20	110.00	111.50	113.80	115.60	
117.40	119.20	122.40	123.30			
3673678.83	107.80	108.90	111.50	116.10	117.20	
122.00	123.30	123.50	123.40			
3673638.09	111.30	115.90	116.40	117.30	118.20	
120.20	121.20	121.10	120.20			
3673597.35	114.90	115.50	116.00	117.30	118.90	
120.30	120.40	119.90	119.00			
3673556.61	112.40	113.50	114.70	115.70	116.10	
116.30	117.70	117.50	117.10			
3673515.87	111.30	112.60	113.50	113.60	114.40	
115.60	115.40	114.50	114.00			
3673475.13	112.80	112.30	112.10	111.70	111.60	
111.40	110.60	110.10	109.80			
3673434.39	112.20	111.90	111.60	111.40	111.10	
110.90	110.30	108.60	108.20			
3673393.65	112.50	111.90	111.00	110.00	109.50	
108.50	108.30	106.90	106.00			
3673352.91	112.50	111.60	110.90	109.60	106.80	
106.10	106.90	104.70	103.70			
3673312.17	110.90	109.30	109.10	108.50	105.30	
104.30	105.20	102.50	101.70			
3673271.43	109.20	107.80	106.80	105.60	103.70	
102.60	102.00	100.80	100.40			

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD				X-COORD (METERS)
(METERS)	473881.33	473904.91	473928.49	

3674086.23	103.00	102.90	104.10	
3674045.49	104.90	106.40	107.70	
3674004.75	108.00	110.50	111.10	

3673964.01	110.90	111.30	112.20
3673923.27	109.60	109.80	112.10
3673882.53	107.80	108.40	111.70
3673841.79	109.60	109.20	112.80
3673801.05	113.20	111.80	115.10
3673760.31	115.30	114.60	117.10
3673719.57	123.00	121.30	119.80
3673678.83	122.60	120.80	118.80
3673638.09	119.30	118.00	116.60
3673597.35	117.70	116.20	114.90
3673556.61	116.40	115.30	113.80
3673515.87	113.60	113.00	112.10
3673475.13	109.90	110.20	110.50
3673434.39	108.50	109.90	110.70
3673393.65	106.50	109.70	111.20
3673352.91	104.10	107.90	109.90
3673312.17	102.00	105.90	108.00
3673271.43	101.10	103.30	105.00

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473456.89	473480.47	473504.05	473527.63	473551.21
473574.79	473598.37	473621.95	473645.53		

3674086.23	141.60	141.60	141.40	141.30	118.00
118.30	118.30	94.00	93.80		
3674045.49	141.60	141.60	141.60	141.40	118.00
118.30	123.70	118.00	91.80		
3674004.75	141.60	141.60	141.60	141.40	123.70
124.00	124.00	118.30	118.00		
3673964.01	141.60	141.60	141.60	141.60	141.40
124.00	124.00	124.00	124.00		
3673923.27	141.60	141.60	141.60	141.60	141.40
141.30	124.00	124.00	124.00		
3673882.53	141.60	141.60	141.60	141.60	141.40
141.30	124.00	124.00	124.00		
3673841.79	141.60	141.60	141.60	141.60	141.40

141.30	124.00	124.00	124.00			
3673801.05	141.60	141.60	141.60	141.40	141.30	
124.00	124.00	124.00	124.00			
3673760.31	141.60	141.60	141.40	141.30	124.00	
124.00	124.00	124.00	124.00			
3673719.57	141.60	141.60	141.40	141.30	123.70	
124.00	124.00	124.00	122.10			
3673678.83	141.60	141.40	141.30	126.00	117.30	
117.30	117.30	122.10	123.70			
3673638.09	141.40	141.30	141.30	126.00	124.60	
117.30	117.30	122.10	122.10			
3673597.35	126.00	126.40	126.00	126.00	124.60	
117.20	117.30	117.30	117.20			
3673556.61	126.00	124.60	111.70	111.70	111.10	
109.60	108.90	109.50	113.10			
3673515.87	126.40	126.00	123.60	113.00	116.40	
116.40	116.40	116.40	114.30			
3673475.13	122.50	117.70	116.80	115.80	116.30	
116.20	115.20	114.30	113.50			
3673434.39	121.70	122.30	122.30	116.10	116.20	
115.70	114.90	114.00	113.00			
3673393.65	121.70	122.30	122.30	122.30	116.50	
115.20	114.70	114.20	113.30			
3673352.91	121.60	122.30	122.30	122.30	116.10	
114.90	114.00	114.20	113.70			
3673312.17	121.90	121.90	122.30	115.40	115.90	
114.30	113.30	113.50	112.90			
3673271.43	122.60	115.70	115.40	114.90	114.70	
113.90	112.80	111.90	113.60			

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)				X-COORD (METERS)	
	473669.11	473692.69	473716.27	473739.85	473763.43
473787.01	473810.59	473834.17	473857.75		

3674086.23	93.60	93.50	93.90	100.80	111.10
111.10	103.50	103.50	103.20		

3674045.49		93.00	93.20	111.10	111.10	111.10
111.10		111.10	111.60	111.60		
3674004.75		118.00	118.30	118.30	111.10	111.20
111.20		111.60	111.20	111.60		
3673964.01		124.00	124.00	123.70	123.30	118.30
118.30		111.20	111.20	111.10		
3673923.27		124.00	124.00	124.00	124.00	124.00
124.00		123.30	118.30	110.40		
3673882.53		124.00	123.70	124.00	124.00	124.00
124.00		124.00	124.00	123.30		
3673841.79		124.00	124.00	124.00	124.00	124.00
124.00		124.00	124.00	123.30		
3673801.05		124.00	124.00	124.00	124.00	118.30
118.30		118.30	118.00	116.10		
3673760.31		123.70	112.90	112.60	122.10	115.90
116.80		122.80	123.30	123.30		
3673719.57		122.10	123.70	124.00	124.00	124.00
124.00		124.00	122.40	123.30		
3673678.83		123.70	124.00	124.00	123.70	123.70
122.00		123.30	123.50	123.40		
3673638.09		117.30	117.20	117.30	117.30	121.80
120.20		121.20	121.10	120.20		
3673597.35		114.90	115.50	116.00	117.30	118.90
121.00		120.40	119.90	119.00		
3673556.61		112.40	113.50	114.70	115.70	116.10
121.00		117.70	120.10	120.10		
3673515.87		111.30	112.60	113.50	113.60	114.40
115.60		115.40	120.10	120.10		
3673475.13		112.80	112.30	112.10	111.70	111.60
115.50		115.50	120.10	120.10		
3673434.39		112.20	111.90	111.60	111.40	111.10
110.90		110.30	108.60	108.20		
3673393.65		112.50	111.90	111.00	110.00	109.50
111.40		110.80	110.80	106.00		
3673352.91		112.50	111.60	110.90	110.40	110.40
106.10		106.90	107.00	111.50		
3673312.17		110.90	109.30	109.10	108.50	109.50
104.30		105.20	105.80	111.50		
3673271.43		112.10	107.80	106.80	109.30	109.30
109.30		104.40	104.40	108.90		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473881.33	473904.91	473928.49
3674086.23	103.00	111.60	109.70
3674045.49	111.60	111.60	109.70
3674004.75	111.60	110.50	111.10
3673964.01	110.90	111.30	112.20
3673923.27	109.60	114.70	114.70
3673882.53	119.30	119.30	117.10
3673841.79	123.30	123.30	119.30
3673801.05	123.30	123.70	119.80
3673760.31	124.00	124.00	122.90
3673719.57	123.00	122.90	119.80
3673678.83	122.60	120.80	118.80
3673638.09	122.90	122.90	122.50
3673597.35	117.70	116.20	114.90
3673556.61	119.50	118.30	118.30
3673515.87	119.50	113.00	112.10
3673475.13	109.90	110.20	110.50
3673434.39	108.50	109.90	110.70
3673393.65	111.70	111.50	111.20
3673352.91	111.70	111.50	109.90
3673312.17	111.50	108.90	108.00
3673271.43	110.30	108.90	105.00

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

*** X-COORDINATES OF GRID ***
(METERS)

473464.3, 473489.3, 473514.3, 473539.3, 473564.3, 473589.3, 473614.3,
473639.3, 473664.3, 473689.3,
473714.3, 473739.3, 473764.3, 473789.3, 473814.3, 473839.3, 473864.3,
473889.3, 473914.3, 473939.3,
473964.3,

*** Y-COORDINATES OF GRID ***
(METERS)

3674446.4, 3674471.4, 3674496.4, 3674521.4, 3674546.4, 3674571.4, 3674596.4,
3674621.4, 3674646.4, 3674671.4,
3674696.4, 3674721.4, 3674746.4, 3674771.4, 3674796.4, 3674821.4, 3674846.4,
3674871.4, 3674896.4, 3674921.4,
3674946.4,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	473464.30	473489.30	473514.30	473539.30	473564.30	
473589.30	473614.30	473639.30	473664.30			

3674946.42	94.50	95.00	94.80	95.20	94.60
92.00	87.50	86.20	90.10		
3674921.42	90.50	89.10	88.90	90.30	89.50
86.50	85.00	86.10	88.30		
3674896.42	91.60	89.50	85.90	85.80	85.70
85.50	86.00	86.60	88.40		
3674871.42	90.90	88.30	86.00	85.70	86.00
86.20	86.80	87.60	89.10		
3674846.42	89.90	87.70	85.10	83.80	83.90
84.30	85.10	85.80	87.60		
3674821.42	86.40	85.20	83.50	82.40	82.80
83.50	83.90	85.00	89.20		
3674796.42	82.70	82.20	82.10	82.40	83.20
84.10	83.80	85.80	93.00		
3674771.42	82.50	81.70	82.00	82.80	84.00
83.90	83.90	85.90	93.70		
3674746.42	83.10	81.60	81.30	81.50	82.00
83.10	83.90	86.10	94.10		
3674721.42	81.80	81.20	80.80	81.80	83.40
84.00	84.30	86.50	94.40		
3674696.42	81.40	80.60	80.40	81.30	83.30
84.90	84.70	87.10	94.60		

3674671.42	81.70	80.20	80.00	80.50	82.50
85.50	85.20	87.50	94.50		
3674646.42	81.90	79.90	79.80	80.30	82.70
86.30	85.80	87.80	94.20		
3674621.42	81.20	79.30	79.50	80.20	83.00
86.70	86.50	88.60	94.50		
3674596.42	80.40	78.80	79.10	80.10	83.60
87.50	87.10	89.10	94.10		
3674571.42	79.70	78.40	78.70	79.90	83.90
88.10	87.70	89.20	92.70		
3674546.42	79.00	78.00	78.40	79.90	84.10
88.70	88.30	89.30	90.90		
3674521.42	78.50	77.80	78.20	79.90	84.70
89.30	88.90	89.60	89.80		
3674496.42	78.00	77.80	77.80	79.90	85.80
90.10	89.60	90.40	90.10		
3674471.42	77.10	77.00	77.10	80.00	87.00
90.30	89.80	90.00	89.80		
3674446.42	76.40	76.50	76.60	79.40	86.40
90.50	90.20	90.10	90.00		

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)					X-COORD (METERS)	
	473689.30	473714.30	473739.30	473764.30	473789.30	
473814.30	473839.30	473864.30	473889.30			

3674946.42	93.80	93.90	94.60	96.90	101.00	
100.80	101.30	105.30	105.60			
3674921.42	91.20	91.90	93.90	96.10	99.70	
99.60	100.30	104.20	104.60			
3674896.42	90.40	91.90	93.50	95.20	97.00	
98.70	100.30	102.20	103.50			
3674871.42	91.00	92.30	93.70	95.60	97.60	
99.10	100.90	102.70	103.40			
3674846.42	91.10	94.50	97.30	98.90	100.70	
102.50	103.80	104.00	103.20			
3674821.42	94.40	97.20	99.60	100.60	102.00	

103.50	104.50	104.00	102.70			
3674796.42		98.80	98.90	99.30	99.70	100.80
101.80	102.80	102.70	101.80			
3674771.42		98.60	98.30	98.60	99.10	100.40
101.90	102.40	101.60	101.00			
3674746.42		98.50	98.10	98.80	101.40	101.30
101.80	102.30	101.40	100.10			
3674721.42		98.20	97.90	98.70	102.00	101.60
102.20	102.60	100.60	99.30			
3674696.42		98.10	97.60	98.50	102.20	101.80
102.30	102.70	99.90	98.40			
3674671.42		97.70	97.00	98.20	102.40	102.00
102.30	101.40	98.70	97.60			
3674646.42		96.60	96.10	97.50	102.30	102.10
101.60	98.00	96.50	96.50			
3674621.42		95.90	95.10	96.00	98.00	100.30
95.80	95.50	95.70	95.80			
3674596.42		94.70	94.10	95.10	94.80	94.90
93.90	93.80	94.80	96.00			
3674571.42		93.90	92.90	92.30	92.10	92.00
92.50	93.50	94.60	94.50			
3674546.42		92.50	91.20	90.00	90.30	91.40
92.00	93.40	91.90	90.60			
3674521.42		90.40	89.60	89.20	89.50	91.60
91.70	91.90	86.60	85.50			
3674496.42		89.70	88.90	87.70	89.40	90.60
87.20	86.60	86.10	82.70			
3674471.42		89.80	89.50	89.00	86.80	87.30
86.50	84.50	84.30	83.50			
3674446.42		89.50	86.80	87.10	85.80	85.80
85.10	83.90	84.00	83.90			

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)				X-COORD (METERS)
	473914.30	473939.30	473964.30	
3674946.42	105.50	104.80	101.80	

3674921.42	104.60	103.80	100.60
3674896.42	104.10	102.60	99.30
3674871.42	103.90	101.10	98.80
3674846.42	103.60	99.50	96.80
3674821.42	103.20	98.40	94.30
3674796.42	102.50	97.80	92.40
3674771.42	101.50	96.60	92.70
3674746.42	100.80	97.90	91.70
3674721.42	99.70	95.50	89.80
3674696.42	98.90	93.40	88.30
3674671.42	98.10	92.60	87.60
3674646.42	97.20	92.60	87.30
3674621.42	96.60	92.30	87.40
3674596.42	96.60	90.80	86.40
3674571.42	91.60	87.80	85.60
3674546.42	86.40	85.50	85.40
3674521.42	85.30	85.20	85.80
3674496.42	83.60	84.10	85.80
3674471.42	83.90	84.00	81.40
3674446.42	81.60	80.90	79.80

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473464.30	473489.30	473514.30	473539.30	473564.30
473589.30	473614.30	473639.30	473664.30		

3674946.42	121.00	99.00	99.00	97.70	97.20
133.60	133.90	133.90	133.90		
3674921.42	121.00	121.00	121.00	121.00	133.60
133.90	133.90	133.90	133.90		
3674896.42	99.00	121.00	133.60	133.60	133.90
133.90	133.90	133.90	133.90		
3674871.42	90.90	99.00	121.00	133.60	133.60
133.90	133.90	133.90	133.90		
3674846.42	89.90	99.00	99.00	133.60	133.60
133.90	133.90	133.90	133.90		
3674821.42	106.30	99.00	99.00	133.60	133.60

133.90	133.90	133.90	133.60			
3674796.42		121.10	106.30	99.00	98.90	133.60
133.60		133.60	133.60	99.10		
3674771.42		121.10	106.30	82.00	98.90	99.10
133.60		133.60	133.60	98.90		
3674746.42		106.30	81.60	98.60	98.90	99.10
102.30		102.80	102.80	98.60		
3674721.42		121.10	81.20	98.60	98.90	98.90
102.30		102.80	102.80	98.60		
3674696.42		121.40	99.90	98.60	98.60	98.60
98.60		102.80	102.80	98.20		
3674671.42		101.60	99.90	98.20	98.60	102.80
98.60		102.80	102.80	98.20		
3674646.42		99.90	83.70	98.20	102.80	102.80
98.20		102.80	102.80	96.80		
3674621.42		82.70	79.30	98.20	98.20	98.20
98.20		102.80	102.80	94.50		
3674596.42		80.40	78.80	94.20	98.20	96.00
87.50		98.20	102.80	94.10		
3674571.42		79.70	90.40	94.20	96.80	93.90
88.10		93.90	96.00	92.70		
3674546.42		79.00	90.60	93.90	94.20	90.40
88.70		88.30	89.30	93.80		
3674521.42		78.50	90.60	90.60	93.90	90.60
89.30		88.90	89.60	89.80		
3674496.42		90.60	90.60	90.60	90.60	90.60
90.10		89.60	90.40	90.10		
3674471.42		90.60	90.60	90.60	90.60	90.60
90.30		89.80	90.00	89.80		
3674446.42		90.60	90.60	90.60	90.60	90.60
90.50		90.20	90.10	90.00		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD						X-COORD (METERS)
(METERS)						
473814.30	473839.30	473864.30	473889.30	473739.30	473764.30	473789.30

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3674946.42		133.90	133.90	133.90	133.90	133.90
133.90		133.90	133.90	133.90		
3674921.42		133.90	133.90	133.90	133.90	133.90
133.90		133.90	133.90	133.90		
3674896.42		133.90	133.90	133.90	133.90	133.90
133.90		133.90	133.90	133.90		
3674871.42		133.90	133.90	133.90	133.90	133.90
133.90		133.90	133.60	133.60		
3674846.42		133.90	133.60	133.60	133.60	133.60
105.70		105.70	104.00	133.60		
3674821.42		99.60	99.10	99.60	100.60	102.00
104.80		104.50	104.00	102.70		
3674796.42		98.80	98.90	99.30	99.70	100.80
101.80		102.80	102.70	101.80		
3674771.42		98.60	98.30	98.60	99.10	100.40
101.90		102.40	101.60	101.00		
3674746.42		98.50	98.10	101.80	101.40	101.30
101.80		102.30	101.40	100.10		
3674721.42		98.20	97.90	102.20	102.00	101.60
102.20		102.60	100.60	99.30		
3674696.42		98.10	97.60	102.30	102.20	101.80
102.30		102.70	102.90	98.40		
3674671.42		97.70	102.80	102.80	102.40	102.00
102.30		102.60	102.60	102.60		
3674646.42		96.60	102.80	102.80	102.80	102.10
102.30		102.60	102.60	102.60		
3674621.42		95.90	102.80	102.80	102.80	100.30
102.80		102.60	102.60	95.80		
3674596.42		94.70	102.80	102.80	102.80	102.80
102.80		102.60	102.30	96.00		
3674571.42		93.90	102.80	102.80	102.80	102.80
102.80		102.30	94.60	96.40		
3674546.42		93.80	102.80	102.80	102.80	102.80
102.30		93.40	94.70	96.80		
3674521.42		90.40	89.60	102.80	102.80	91.60
92.50		92.90	102.60	102.60		
3674496.42		89.70	88.90	87.70	89.40	90.60
100.10		102.30	102.30	102.80		
3674471.42		89.80	89.50	89.70	90.60	90.60
92.90		94.70	96.40	96.80		
3674446.42		89.50	90.10	89.70	89.70	85.80
85.10		92.90	92.90	83.90		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473914.30	473939.30	473964.30
3674946.42	133.90	133.90	133.90
3674921.42	133.90	133.90	133.90
3674896.42	133.90	133.90	133.90
3674871.42	133.60	133.90	133.90
3674846.42	133.60	133.90	133.90
3674821.42	103.20	133.90	133.90
3674796.42	102.50	133.60	133.90
3674771.42	101.50	103.60	133.90
3674746.42	100.80	101.70	133.60
3674721.42	99.70	101.70	133.60
3674696.42	98.90	101.70	133.60
3674671.42	98.10	102.60	103.00
3674646.42	97.20	99.40	102.90
3674621.42	96.60	98.60	102.90
3674596.42	96.60	97.40	102.60
3674571.42	96.80	102.60	102.60
3674546.42	102.60	102.60	97.40
3674521.42	102.30	96.80	96.80
3674496.42	102.30	96.80	96.80
3674471.42	96.80	96.80	96.80
3674446.42	96.80	96.80	96.80

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

*** X-COORDINATES OF GRID ***
(METERS)

472425.4, 472475.4, 472525.4, 472575.4, 472625.4, 472675.4, 472725.4,
472775.4, 472825.4, 472875.4,
472925.4, 472975.4, 473025.4, 473075.4, 473125.4, 473175.4, 473225.4,

473275.4, 473325.4, 473375.4,
473425.4,

*** Y-COORDINATES OF GRID ***
(METERS)

3672957.1, 3672984.3, 3673011.5, 3673038.7, 3673066.0, 3673093.2, 3673120.4,
3673147.6, 3673174.8, 3673202.1,
3673229.3, 3673256.5, 3673283.7, 3673310.9, 3673338.2, 3673365.4, 3673392.6,
3673419.8, 3673447.0, 3673474.3,
3673501.5,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)		472425.37	472475.37	472525.37	472575.37	472625.37
472675.37	472725.37	472775.37	472825.37			

3673501.48	111.20	114.00	114.50	118.20	120.90
121.90	127.70	127.90	130.80		
3673474.26	116.60	117.70	118.10	119.80	121.40
121.80	127.30	128.60	130.40		
3673447.04	117.50	117.30	117.60	119.40	121.00
121.70	126.10	130.50	129.80		
3673419.82	115.40	117.70	118.40	120.20	121.80
122.50	128.50	130.00	130.40		
3673392.60	111.10	115.90	118.50	120.80	124.10
126.80	129.20	130.30	129.00		
3673365.38	111.20	114.50	117.60	120.50	123.60
126.50	129.10	130.50	128.20		
3673338.16	112.70	115.30	118.50	121.70	125.30
127.20	129.90	129.00	128.10		
3673310.94	113.40	115.50	118.90	122.60	126.30
127.50	128.90	127.80	128.00		
3673283.72	113.90	115.70	119.50	123.30	126.70
127.50	127.90	127.70	123.50		
3673256.50	114.70	118.40	122.50	125.80	128.60
129.30	128.00	125.30	114.70		

3673229.28		115.90	121.80	126.40	129.30	130.70
131.60	127.80	118.10	107.40			
3673202.06		117.40	120.10	124.20	126.90	126.60
128.50	125.80	111.40	103.20			
3673174.84		118.10	122.00	124.10	127.40	126.70
128.20	120.10	101.40	101.90			
3673147.62		118.00	121.80	124.40	127.00	128.00
124.80	109.70	100.90	101.10			
3673120.40		116.10	117.80	122.10	123.90	124.90
116.00	101.40	99.90	101.30			
3673093.18		112.90	112.70	116.90	119.60	116.10
107.20	99.10	99.20	101.50			
3673065.96		111.10	108.60	108.10	109.60	106.40
100.70	98.50	99.30	102.20			
3673038.74		110.80	106.90	102.00	100.40	99.70
97.70	97.90	99.50	102.60			
3673011.52		106.70	103.50	99.60	97.50	96.80
97.10	98.30	100.30	102.40			
3672984.30		95.40	94.10	94.70	96.00	96.50
96.40	100.10	102.70	103.20			
3672957.08		86.40	88.80	91.40	94.00	96.80
96.70	102.40	102.90	103.60			

^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)				X-COORD (METERS)	
	472875.37	472925.37	472975.37	473025.37	473075.37
473125.37	473175.37	473225.37	473275.37		

3673501.48		129.90	128.80	127.30	124.70	123.10
125.00	117.70	112.70	116.00			
3673474.26		129.10	127.60	126.10	123.30	119.40
120.30	114.80	117.80	122.90			
3673447.04		130.10	128.00	126.40	123.20	118.70
115.40	117.90	124.70	125.10			
3673419.82		128.70	128.30	122.90	118.20	117.20
114.50	123.10	124.10	125.80			
3673392.60		128.20	128.60	118.90	114.90	114.30

114.90	123.50	124.70	126.00			
3673365.38		128.40	122.40	113.80	113.30	114.10
115.20		123.10	124.40	125.70		
3673338.16		125.20	113.80	111.00	112.30	113.60
116.20		122.60	123.80	125.50		
3673310.94		118.50	108.80	109.60	111.50	115.20
117.90		122.00	122.80	123.70		
3673283.72		110.90	107.00	108.70	112.40	117.60
119.40		121.30	121.80	121.90		
3673256.50		106.10	106.00	108.10	115.70	118.80
120.30		121.10	121.40	121.60		
3673229.28		105.20	105.60	108.60	118.30	119.20
121.10		121.70	121.60	121.50		
3673202.06		103.50	106.60	111.20	115.70	119.10
122.20		122.40	120.20	118.60		
3673174.84		103.30	108.90	111.00	115.20	119.00
121.90		121.80	119.80	117.80		
3673147.62		104.70	109.20	110.20	115.10	118.20
120.90		121.00	119.10	117.90		
3673120.40		106.20	108.30	110.60	114.60	117.70
119.60		118.90	117.10	115.50		
3673093.18		105.50	107.20	111.40	114.90	117.60
118.60		118.40	116.60	114.80		
3673065.96		104.40	106.80	110.70	113.70	116.10
117.30		117.10	115.10	113.30		
3673038.74		103.90	106.80	109.50	112.00	114.20
115.80		114.90	112.80	111.00		
3673011.52		104.50	107.40	109.90	112.30	114.10
114.90		114.00	111.30	109.80		
3672984.30		106.60	109.20	110.90	113.80	114.40
114.20		113.70	108.40	107.90		
3672957.08		106.40	108.50	110.50	113.40	114.20
112.40		112.60	108.30	107.90		

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD				X-COORD (METERS)
(METERS)				
	473325.37	473375.37	473425.37	

3673501.48	116.80	117.40	116.20
3673474.26	125.80	124.50	122.10
3673447.04	125.50	124.40	121.20
3673419.82	126.30	125.80	122.00
3673392.60	126.20	125.90	122.30
3673365.38	126.00	125.30	122.30
3673338.16	125.90	124.60	122.40
3673310.94	123.70	121.90	120.20
3673283.72	121.20	119.10	117.30
3673256.50	120.90	118.70	116.40
3673229.28	120.70	118.60	116.10
3673202.06	116.30	114.50	112.50
3673174.84	115.80	113.80	111.90
3673147.62	115.90	114.00	111.00
3673120.40	113.70	111.80	109.80
3673093.18	113.00	110.90	108.70
3673065.96	111.60	109.60	107.50
3673038.74	109.30	107.60	106.40
3673011.52	108.00	106.80	105.90
3672984.30	105.80	105.80	105.70
3672957.08	105.50	105.50	105.50

^ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	472425.37	472475.37	472525.37	472575.37	472625.37
472675.37	472725.37	472775.37	472825.37		

3673501.48	118.10	118.10	119.80	118.20	120.90
127.80	127.70	127.90	130.80		
3673474.26	116.60	117.70	118.10	119.80	121.40
127.80	127.30	128.60	130.40		
3673447.04	117.50	117.30	117.60	119.40	121.00
130.50	130.50	130.50	129.80		
3673419.82	118.10	117.70	118.40	120.20	121.80
130.50	128.50	130.00	130.40		
3673392.60	118.20	115.90	118.50	120.80	124.10

126.80	129.20	130.30	129.00			
3673365.38	118.20	114.50	117.60	120.50	123.60	
126.50	129.10	130.50	128.20			
3673338.16	126.50	129.70	130.90	124.50	125.30	
127.20	129.90	129.00	128.10			
3673310.94	129.70	130.90	131.60	131.60	126.30	
127.50	128.90	127.80	128.00			
3673283.72	129.70	131.60	131.60	132.50	132.50	
132.60	127.90	127.70	128.20			
3673256.50	129.70	130.90	130.90	131.60	132.50	
132.60	128.00	128.10	132.60			
3673229.28	128.30	126.50	126.40	129.30	131.60	
132.60	131.10	132.60	132.60			
3673202.06	117.40	128.30	128.30	130.90	132.60	
132.60	132.60	132.60	132.60			
3673174.84	118.10	124.20	126.50	127.40	129.10	
128.20	132.60	132.60	132.60			
3673147.62	118.00	123.80	124.40	127.00	128.00	
129.10	132.60	132.60	132.60			
3673120.40	123.80	127.60	127.60	127.60	128.40	
132.60	132.60	132.60	132.60			
3673093.18	124.20	128.40	128.40	128.40	132.60	
132.60	132.60	132.60	132.60			
3673065.96	127.60	131.60	132.60	132.60	132.60	
132.60	132.60	132.60	132.60			
3673038.74	123.80	131.60	132.60	132.60	132.60	
132.60	132.60	132.60	132.60			
3673011.52	127.60	132.50	132.60	132.60	132.60	
132.60	132.60	132.60	132.60			
3672984.30	132.60	132.60	132.60	132.60	132.60	
132.60	132.60	132.60	128.50			
3672957.08	132.60	132.60	132.60	132.60	132.60	
132.60	132.60	129.10	111.80			

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)					X-COORD (METERS)
	472875.37	472925.37	472975.37	473025.37	473075.37
473125.37	473175.37	473225.37	473275.37		

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3673501.48 |      139.80      140.90      141.40      141.60      141.60
141.60      141.60      141.60      141.40
3673474.26 |      129.10      140.90      141.00      141.60      141.60
141.60      141.60      141.40      122.90
3673447.04 |      130.10      140.90      140.90      141.20      141.60
141.60      141.60      124.70      125.10
3673419.82 |      128.70      128.30      140.90      141.60      141.60
141.60      140.90      124.10      125.80
3673392.60 |      128.20      128.60      141.00      141.60      141.60
141.60      123.50      124.70      126.00
3673365.38 |      128.40      128.70      141.60      141.60      141.60
141.20      123.10      124.40      125.70
3673338.16 |      128.60      140.90      141.60      141.20      141.20
140.90      122.60      123.80      125.50
3673310.94 |      130.80      141.00      141.20      141.00      140.90
122.60      122.00      122.80      123.70
3673283.72 |      140.90      141.00      140.90      140.90      117.60
119.40      121.30      121.80      121.90
3673256.50 |      140.90      140.90      140.90      119.50      118.80
120.30      121.10      121.40      121.60
3673229.28 |      140.90      140.90      140.90      119.50      119.20
121.10      121.70      121.60      121.50
3673202.06 |      140.90      132.60      119.50      119.50      119.10
122.20      122.40      120.20      122.10
3673174.84 |      132.60      128.60      119.50      115.20      119.00
121.90      121.80      119.80      117.80
3673147.62 |      132.60      127.90      113.60      115.10      118.20
120.90      121.00      119.10      117.90
3673120.40 |      132.60      108.30      110.60      114.60      117.70
119.60      118.90      117.10      118.40
3673093.18 |      132.60      111.20      111.40      114.90      117.60
118.60      118.40      116.60      114.80
3673065.96 |      132.60      111.20      110.70      115.90      118.00
117.30      117.10      117.20      115.50
3673038.74 |      132.60      106.80      109.50      112.00      114.20
115.80      114.90      118.40      115.50
3673011.52 |      106.80      107.40      109.90      112.30      114.10
114.90      114.00      112.50      109.80
3672984.30 |      106.60      109.20      110.90      113.80      114.40
114.20      113.70      113.90      107.90
3672957.08 |      106.40      108.50      110.50      113.40      114.20
112.40      112.60      113.90      107.90

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^ *** AERMOD - VERSION 23132 ***      *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 ***      ***
***      15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	473325.37	473375.37	473425.37
3673501.48	126.40	126.40	126.00
3673474.26	125.80	124.50	122.10
3673447.04	125.50	124.40	125.30
3673419.82	126.30	125.80	125.30
3673392.60	126.20	125.90	125.80
3673365.38	126.00	125.30	125.70
3673338.16	125.90	124.60	122.40
3673310.94	126.00	125.50	125.70
3673283.72	126.00	125.50	125.70
3673256.50	120.90	118.70	116.40
3673229.28	121.90	119.40	116.80
3673202.06	122.10	121.90	119.40
3673174.84	121.90	113.80	118.50
3673147.62	115.90	114.00	111.00
3673120.40	116.00	115.50	109.80
3673093.18	113.00	110.90	108.70
3673065.96	113.40	111.20	107.50
3673038.74	109.30	107.60	106.40
3673011.52	108.00	106.80	105.90
3672984.30	105.80	105.80	105.70
3672957.08	105.50	105.50	105.50

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

*** X-COORDINATES OF GRID ***
(METERS)

471446.8, 471494.6, 471542.3, 471590.0, 471637.8, 471685.5, 471733.2,

471780.9, 471828.7, 471876.4,
 471924.1, 471971.9, 472019.6, 472067.3, 472115.1, 472162.8, 472210.5,
 472258.2, 472306.0, 472353.7,
 472401.4,

*** Y-COORDINATES OF GRID ***
 (METERS)

3672962.3, 3672990.0, 3673017.8, 3673045.5, 3673073.3, 3673101.1, 3673128.8,
 3673156.6, 3673184.4, 3673212.1,
 3673239.9, 3673267.6, 3673295.4, 3673323.1, 3673350.9, 3673378.7, 3673406.4,
 3673434.2, 3673462.0, 3673489.7,
 3673517.5,

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)		471446.84	471494.57	471542.30	471590.03	471637.76
471685.49	471733.22	471780.95	471828.68			

3673517.47		93.10	93.10	93.60	93.50	94.50
95.60	97.00	97.90	99.20			
3673489.71		94.80	95.90	94.80	94.30	94.90
95.20	96.40	98.40	100.50			
3673461.95		94.80	95.90	96.10	97.40	97.90
96.20	97.20	101.80	104.20			
3673434.19		95.10	96.20	96.60	98.30	100.50
100.60	101.40	103.70	104.70			
3673406.43		95.30	96.80	96.70	98.90	101.20
102.20	103.00	104.20	104.80			
3673378.67		94.40	96.70	96.40	100.50	101.50
102.30	103.10	103.40	104.00			
3673350.91		92.20	96.40	96.20	101.90	102.00
102.50	102.90	101.90	102.10			
3673323.15		89.80	96.50	96.30	101.10	102.00
101.90	101.20	100.90	101.60			
3673295.39		88.20	96.20	96.00	97.80	101.60
101.50	100.90	100.40	101.40			

3673267.63		85.30	95.00	95.70	96.00	97.20
98.90	100.30	98.10	95.70			
3673239.87		84.30	92.40	95.80	95.70	94.40
92.40	97.60	97.70	95.10			
3673212.11		84.10	86.90	95.50	94.90	93.30
91.10	95.60	96.30	96.10			
3673184.35		84.30	82.20	93.60	93.80	92.90
90.00	92.60	94.50	93.90			
3673156.59		84.10	81.60	93.00	92.80	90.60
88.00	88.90	92.80	91.70			
3673128.83		83.60	80.50	91.50	91.60	89.70
85.30	84.50	89.90	91.10			
3673101.07		83.90	78.30	88.30	90.90	89.80
82.70	80.50	84.20	88.00			
3673073.31		84.50	76.30	84.30	90.20	89.70
80.20	77.00	77.20	80.10			
3673045.55		84.80	74.20	79.80	89.10	88.40
77.40	73.30	71.90	71.30			
3673017.79		85.30	71.90	74.90	85.50	82.80
73.60	69.90	68.60	66.30			
3672990.03		86.40	71.20	69.60	73.30	70.30
65.60	66.60	66.20	65.50			
3672962.27		85.70	69.90	65.00	65.20	65.40
65.10	65.00	65.60	66.00			

^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
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PAGE 41

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)				X-COORD (METERS)	
	471876.41	471924.14	471971.87	472019.60	472067.33
472115.06	472162.79	472210.52	472258.25		

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3673517.47		101.70	105.40	106.60	107.20	108.30
108.80	112.80	112.60	109.10			
3673489.71		105.70	105.90	107.00	106.80	108.00
109.10	112.20	112.30	102.30			
3673461.95		105.60	106.50	106.30	106.20	107.40
109.20	110.90	111.40	97.50			
3673434.19		105.80	105.80	105.30	105.90	105.80

108.90	110.70	110.10	95.80			
3673406.43	105.00	104.80	105.10	105.30	103.90	
106.60	111.20	105.70	95.30			
3673378.67	103.60	104.30	104.70	102.60	101.70	
103.70	109.40	99.70	95.00			
3673350.91	103.20	103.90	101.60	99.10	100.00	
101.40	103.60	96.10	95.00			
3673323.15	102.30	101.40	96.80	97.80	100.00	
98.70	97.10	95.70	95.10			
3673295.39	98.10	95.20	96.00	97.90	98.10	
96.70	96.30	95.20	94.90			
3673267.63	94.00	94.30	96.00	97.60	93.40	
94.10	96.10	95.10	94.30			
3673239.87	94.00	93.90	89.90	90.70	86.30	
87.30	95.60	95.20	95.10			
3673212.11	93.70	90.70	83.10	84.00	84.10	
86.70	91.60	97.00	99.70			
3673184.35	90.50	86.60	82.50	81.40	83.20	
86.70	94.80	104.30	107.60			
3673156.59	89.80	83.80	79.80	80.10	83.30	
92.90	102.80	108.30	111.90			
3673128.83	87.50	81.70	77.00	79.00	88.20	
101.30	106.80	108.80	112.00			
3673101.07	82.00	76.90	75.40	79.40	93.00	
105.70	107.10	108.70	111.10			
3673073.31	74.80	71.40	74.10	79.00	90.80	
101.70	105.50	109.00	111.00			
3673045.55	68.80	69.20	72.10	74.60	83.20	
91.00	99.60	106.50	109.80			
3673017.79	66.70	67.50	68.10	71.70	77.60	
82.90	90.60	97.40	103.40			
3672990.03	66.80	68.10	67.10	72.40	77.40	
80.30	84.10	89.00	93.70			
3672962.27	68.10	67.40	67.60	75.80	80.90	
80.10	81.80	82.70	85.60			

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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PAGE 42

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)			X-COORD (METERS)
	472305.98	472353.71	472401.44

3673517.47	96.60	97.40	103.20
3673489.71	94.40	99.80	106.90
3673461.95	94.40	102.00	109.80
3673434.19	94.70	103.60	110.00
3673406.43	94.30	103.60	108.80
3673378.67	94.00	103.40	108.80
3673350.91	95.20	105.40	110.60
3673323.15	97.80	109.40	112.10
3673295.39	100.10	110.90	112.80
3673267.63	98.60	111.10	113.40
3673239.87	96.40	102.70	111.40
3673212.11	101.90	111.20	115.30
3673184.35	110.30	115.50	117.40
3673156.59	113.60	116.50	117.50
3673128.83	113.70	115.90	116.60
3673101.07	113.90	115.00	114.50
3673073.31	114.80	114.60	112.70
3673045.55	113.90	114.00	112.40
3673017.79	107.40	110.60	110.60
3672990.03	98.00	100.30	98.80
3672962.27	89.80	91.90	88.40

^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

PAGE 43

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)				X-COORD (METERS)	
	471446.84	471494.57	471542.30	471590.03	471637.76
471685.49	471733.22	471780.95	471828.68		

3673517.47	93.10	93.10	93.60	100.30	94.50
95.60	97.00	104.70	106.50		
3673489.71	96.00	95.90	94.80	100.30	102.30
103.10	104.70	105.70	106.50		
3673461.95	94.80	95.90	96.10	100.30	98.90
103.70	104.70	104.70	104.20		
3673434.19	96.50	96.20	96.60	98.30	100.50

102.80	103.70	103.70	104.70			
3673406.43		95.30	96.80	96.70	98.90	101.20
102.20	103.00	104.20	104.80			
3673378.67		96.60	96.70	101.50	100.50	101.50
102.30	103.10	103.40	104.00			
3673350.91		96.70	96.40	102.10	101.90	102.00
102.50	102.90	101.90	102.10			
3673323.15		96.70	96.50	102.10	102.10	102.00
101.90	101.20	100.90	101.60			
3673295.39		96.70	96.20	102.10	102.60	102.40
101.50	100.90	100.40	101.40			
3673267.63		102.60	96.30	95.70	102.60	102.60
99.50	100.30	98.10	103.30			
3673239.87		102.60	96.30	95.80	102.60	102.60
102.60	99.00	97.70	102.60			
3673212.11		96.70	102.60	95.50	94.90	102.60
102.40	99.00	96.30	96.10			
3673184.35		96.50	102.60	93.60	93.80	92.90
102.10	99.00	94.50	93.90			
3673156.59		96.10	102.60	93.00	92.80	94.20
100.60	100.60	95.40	94.00			
3673128.83		95.80	102.60	91.50	91.60	93.30
100.60	100.60	95.40	91.10			
3673101.07		90.30	102.60	93.10	90.90	89.80
100.60	102.10	99.00	91.30			
3673073.31		90.80	102.60	93.10	90.20	89.70
100.60	102.60	102.60	99.00			
3673045.55		90.90	102.60	94.30	89.10	89.80
100.60	104.50	107.30	107.30			
3673017.79		90.90	102.60	95.80	89.60	90.00
106.20	108.50	109.10	117.40			
3672990.03		91.00	95.80	108.00	106.00	110.50
110.50	110.50	116.60	117.40			
3672962.27		91.00	108.00	110.50	110.50	110.50
110.50	111.40	117.40	117.40			

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)				X-COORD (METERS)	
	471876.41	471924.14	471971.87	472019.60	472067.33

472115.06 472162.79 472210.52 472258.25

- - - - -
- - - - -

3673517.47		106.50	105.40	106.60	107.20	108.30
112.90		112.80	112.60	114.00		
3673489.71		106.50	105.90	107.00	106.80	108.00
109.10		112.20	112.30	114.10		
3673461.95		105.60	106.50	106.30	106.20	107.40
109.20		110.90	111.40	118.10		
3673434.19		105.80	105.80	105.30	105.90	108.00
108.90		110.70	112.00	118.20		
3673406.43		105.00	104.80	105.10	105.30	110.40
111.40		111.20	112.00	126.50		
3673378.67		103.60	104.30	104.70	105.60	111.40
111.60		111.60	112.50	129.70		
3673350.91		103.20	103.90	104.70	105.60	111.40
111.60		111.60	113.40	130.90		
3673323.15		103.30	104.00	105.60	105.60	111.40
111.60		112.00	116.50	130.90		
3673295.39		104.00	104.70	104.70	97.90	111.40
111.60		111.60	126.50	131.60		
3673267.63		104.00	104.70	96.20	97.60	111.60
111.60		116.50	126.50	131.60		
3673239.87		103.60	104.00	105.60	111.40	116.50
118.00		116.50	126.50	131.60		
3673212.11		94.70	104.00	112.80	116.50	117.50
118.00		118.00	118.00	128.30		
3673184.35		102.60	104.70	114.50	116.70	118.00
118.00		117.50	114.50	116.50		
3673156.59		96.30	107.30	116.50	117.50	118.00
116.50		112.80	108.30	111.90		
3673128.83		96.30	107.60	116.70	117.50	116.50
107.30		106.80	108.80	112.00		
3673101.07		107.30	115.50	116.70	117.50	115.50
105.70		107.10	108.70	115.00		
3673073.31		109.00	116.70	117.50	117.50	115.50
107.30		107.20	109.00	115.50		
3673045.55		116.60	117.50	118.00	124.20	116.70
116.40		115.50	115.50	115.50		
3673017.79		117.40	118.00	124.20	126.50	124.20
124.20		116.70	116.40	115.50		
3672990.03		117.40	117.60	124.20	124.20	124.20
124.20		127.60	124.20	124.20		
3672962.27		117.60	117.60	124.20	117.60	117.60
124.20		127.60	130.90	131.60		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24

*** AERMET - VERSION 22112 *** ***

*** 15:18:33

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	472305.98	472353.71	472401.44
3673517.47	118.20	119.80	118.70
3673489.71	119.30	118.20	118.20
3673461.95	129.70	118.20	118.20
3673434.19	130.90	118.20	118.20
3673406.43	132.50	118.20	118.20
3673378.67	132.50	129.70	118.20
3673350.91	132.50	128.30	110.60
3673323.15	131.60	112.70	112.10
3673295.39	130.90	112.70	128.30
3673267.63	131.60	113.20	128.30
3673239.87	132.50	132.50	130.90
3673212.11	130.90	117.50	116.70
3673184.35	116.50	115.50	117.40
3673156.59	113.60	116.50	117.50
3673128.83	113.70	115.90	116.60
3673101.07	113.90	115.00	114.50
3673073.31	114.80	114.60	112.70
3673045.55	115.30	114.00	112.40
3673017.79	115.50	115.00	112.40
3672990.03	124.20	127.60	130.90
3672962.27	131.60	132.50	132.60

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24

*** AERMET - VERSION 22112 ***

15:18:33

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(473153.7, 3673931.2, 78.0, 141.6, 0.0); (473149.6,
3673875.2, 80.2, 141.6, 0.0);
(473169.1, 3673885.2, 79.2, 141.6, 0.0); (473187.2,

3673893.5,	79.3,	141.6,	0.0);		
(473173.6,	3673940.4,	79.4,	141.6,	0.0);	(473190.2,
3673947.5,	79.0,	141.6,	0.0);		
(473207.3,	3673954.9,	79.1,	141.6,	0.0);	(473229.0,
3673963.8,	79.8,	141.6,	0.0);		
(473203.5,	3673901.8,	80.1,	141.6,	0.0);	(473221.3,
3673910.7,	79.9,	141.6,	0.0);		
(473238.8,	3673917.5,	79.7,	141.6,	0.0);	(473243.8,
3673971.8,	80.1,	141.6,	0.0);		
(473255.7,	3673926.4,	79.8,	141.6,	0.0);	(473262.2,
3673977.4,	79.8,	141.6,	0.0);		
(473281.4,	3673979.2,	80.1,	141.6,	0.0);	(473277.3,
3673930.6,	80.3,	141.6,	0.0);		
(473294.5,	3673931.8,	80.7,	141.6,	0.0);	(473297.1,
3673977.4,	80.2,	141.6,	0.0);		
(473299.1,	3674008.7,	78.8,	141.6,	0.0);	(473317.2,
3673975.2,	80.1,	141.6,	0.0);		
(473333.8,	3673968.1,	79.6,	141.6,	0.0);	(473353.1,
3673967.5,	78.7,	141.6,	0.0);		
(473342.1,	3673988.5,	78.0,	141.6,	0.0);	(473335.6,
3674011.6,	77.2,	141.6,	0.0);		
(473335.6,	3674032.7,	76.9,	141.6,	0.0);	(473358.1,
3674038.9,	76.5,	141.6,	0.0);		
(473375.9,	3674042.7,	76.6,	141.6,	0.0);	(473400.8,
3674009.8,	77.0,	141.6,	0.0);		
(473403.5,	3673987.3,	77.9,	141.6,	0.0);	(473399.6,
3673968.6,	78.7,	141.6,	0.0);		
(473314.0,	3673927.2,	81.1,	141.6,	0.0);	(473333.5,
3673924.2,	80.8,	141.6,	0.0);		
(473352.8,	3673925.1,	80.2,	141.6,	0.0);	(473347.1,
3673891.3,	83.1,	141.6,	0.0);		
(473344.5,	3673869.1,	85.6,	141.6,	0.0);	(473312.2,
3673876.5,	89.1,	141.6,	0.0);		
(473294.4,	3673875.0,	89.3,	141.6,	0.0);	(473272.5,
3673871.4,	90.0,	141.6,	0.0);		
(473252.3,	3673864.6,	90.4,	141.6,	0.0);	(473233.6,
3673854.8,	90.9,	141.6,	0.0);		
(473218.5,	3673848.0,	91.9,	141.6,	0.0);	(473203.7,
3673839.1,	92.5,	141.6,	0.0);		
(473183.2,	3673832.6,	92.2,	141.6,	0.0);	(473178.6,
3673787.5,	94.3,	141.6,	0.0);		
(473199.6,	3673778.8,	95.4,	141.6,	0.0);	(473221.5,
3673784.1,	94.4,	141.6,	0.0);		
(473238.6,	3673798.4,	92.7,	141.6,	0.0);	(473251.2,
3673813.4,	92.3,	141.6,	0.0);		
(473267.6,	3673818.9,	92.0,	141.6,	0.0);	(473287.8,
3673826.6,	90.5,	141.6,	0.0);		
(473323.0,	3673830.4,	88.7,	141.6,	0.0);	(473313.2,
3673806.4,	90.2,	141.6,	0.0);		
(473316.4,	3673785.1,	91.4,	141.6,	0.0);	(473339.7,

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3673772.2,      91.4,      141.6,      0.0);
( 473365.8, 3673780.6,      90.3,      141.6,      0.0);      ( 473378.3,
3673797.7,      89.4,      141.6,      0.0);
( 473384.0, 3673819.2,      88.8,      141.6,      0.0);      ( 473388.5,
3673840.2,      86.8,      141.6,      0.0);
( 473394.8, 3673861.8,      85.0,      141.6,      0.0);      ( 473395.9,
3673885.7,      83.5,      141.6,      0.0);
( 473400.4, 3673902.7,      82.7,      141.6,      0.0);      ( 473401.6,
3673926.5,      80.5,      141.6,      0.0);
( 473162.0, 3673711.4,      112.2,      141.6,      0.0);      ( 473182.4,
3673717.0,      110.5,      141.6,      0.0);
( 473199.5, 3673722.7,      109.5,      141.6,      0.0);      ( 473218.8,
3673726.1,      108.1,      141.6,      0.0);
( 473242.0, 3673738.6,      105.2,      141.6,      0.0);      ( 473260.2,
3673742.6,      104.6,      141.6,      0.0);
( 473281.2, 3673739.8,      102.8,      141.6,      0.0);      ( 473305.6,
3673733.5,      100.3,      141.6,      0.0);
( 473325.5, 3673723.3,      99.6,      141.6,      0.0);      ( 473345.4,
3673714.2,      98.5,      141.6,      0.0);
( 473178.6, 3673658.0,      113.7,      141.6,      0.0);      ( 473200.3,
3673666.3,      110.7,      141.6,      0.0);
( 473221.0, 3673675.4,      108.7,      141.6,      0.0);      ( 473240.8,
3673685.1,      107.9,      141.6,      0.0);
( 473268.3, 3673691.3,      104.8,      141.6,      0.0);      ( 473237.0,
3673648.9,      108.9,      141.6,      0.0);
( 473218.1, 3673630.1,      111.8,      141.6,      0.0);      ( 473198.8,
3673615.1,      115.4,      141.6,      0.0);
( 473170.3, 3673597.2,      118.3,      141.6,      0.0);      ( 472494.6,
3673583.2,      108.2,      116.1,      0.0);
( 472516.0, 3673581.2,      110.9,      113.8,      0.0);      ( 472535.3,
3673580.6,      112.6,      116.1,      0.0);
( 472553.4, 3673579.2,      114.2,      116.1,      0.0);      ( 472578.1,
3673579.2,      115.8,      117.8,      0.0);
( 472596.1, 3673569.9,      117.8,      117.8,      0.0);      ( 472618.1,
3673561.9,      118.4,      118.4,      0.0);
( 472638.2, 3673564.5,      119.9,      119.9,      0.0);      ( 472659.6,
3673559.9,      121.5,      121.5,      0.0);

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^ *** AERMOD - VERSION 23132 ***      *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Trolley Place Con ***      03/18/24
*** AERMET - VERSION 22112 ***      ***
***      15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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( 472682.3, 3673555.8,      123.0,      123.0,      0.0);      ( 472700.3,

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3673559.2,	124.2,	127.5,	0.0);		
(472723.7,	3673565.2,	126.7,	126.7,	0.0);	(472742.4,
3673572.5,	127.6,	127.6,	0.0);		
(472763.1,	3673577.2,	127.6,	127.6,	0.0);	(472783.1,
3673586.6,	127.9,	131.0,	0.0);		
(472803.8,	3673595.9,	130.7,	130.7,	0.0);	(472821.2,
3673601.9,	131.7,	131.7,	0.0);		
(472839.9,	3673613.3,	130.7,	135.4,	0.0);	(472862.6,
3673614.0,	133.7,	133.7,	0.0);		
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3673613.3,	136.4,	136.4,	0.0);		
(472926.8,	3673615.3,	138.2,	138.2,	0.0);	(472946.1,
3673617.3,	139.5,	139.5,	0.0);		
(472963.5,	3673617.3,	140.4,	140.4,	0.0);	(472986.2,
3673613.3,	140.9,	140.9,	0.0);		
(473002.2,	3673613.3,	141.0,	141.0,	0.0);	(473023.6,
3673613.3,	141.1,	141.1,	0.0);		
(473041.0,	3673612.6,	141.2,	141.2,	0.0);	(473057.0,
3673614.6,	141.2,	141.2,	0.0);		
(473080.4,	3673615.3,	141.2,	141.2,	0.0);	(473093.1,
3673596.2,	140.4,	140.4,	0.0);		
(473089.2,	3673574.2,	140.6,	140.9,	0.0);	(473056.1,
3673565.5,	139.7,	139.7,	0.0);		
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3673564.1,	140.6,	140.6,	0.0);		
(472994.7,	3673566.2,	140.5,	140.5,	0.0);	(472972.4,
3673565.9,	140.1,	140.1,	0.0);		
(472950.5,	3673566.2,	139.3,	139.3,	0.0);	(472931.3,
3673565.2,	138.3,	138.3,	0.0);		
(472907.9,	3673565.5,	136.7,	136.7,	0.0);	(472887.0,
3673564.8,	135.5,	135.5,	0.0);		
(472853.9,	3673563.8,	131.9,	135.1,	0.0);	(472857.4,
3673541.8,	131.7,	135.1,	0.0);		
(472804.4,	3673545.3,	130.4,	130.4,	0.0);	(472775.8,
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3673526.0,	130.8,	130.8,	0.0);		
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3673510.5,	123.4,	127.8,	0.0);		
(471413.3,	3673545.2,	93.7,	93.7,	0.0);	(471391.5,
3673536.3,	93.7,	93.7,	0.0);		
(471413.3,	3673498.2,	93.5,	93.5,	0.0);	(471407.2,
3673476.4,	93.2,	93.2,	0.0);		
(471383.4,	3673433.4,	92.9,	92.9,	0.0);	(471412.0,
3673429.3,	92.9,	92.9,	0.0);		
(471413.3,	3673451.2,	92.9,	92.9,	0.0);	(471347.9,
3673438.9,	92.9,	92.9,	0.0);		
(471462.0,	3673587.4,	91.6,	92.7,	0.0);	(471482.1,
3673581.1,	92.4,	92.9,	0.0);		
(471498.0,	3673576.1,	93.0,	93.0,	0.0);	(471516.8,

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3673569.0,    93.1,    93.1,    0.0);
( 471531.5, 3673562.3,    93.5,    93.5,    0.0);    ( 471549.9,
3673559.4,    93.0,    93.0,    0.0);
( 471565.0, 3673552.7,    93.2,    93.2,    0.0);    ( 471583.4,
3673548.9,    93.6,    93.9,    0.0);
( 471600.5, 3673543.1,    94.0,    94.0,    0.0);    ( 471615.2,
3673537.6,    94.1,    94.1,    0.0);
( 471633.6, 3673528.0,    94.4,    94.4,    0.0);    ( 471651.1,
3673525.5,    94.4,    94.4,    0.0);
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( 471705.1, 3673517.5,    96.1,    96.1,    0.0);    ( 471726.0,
3673518.4,    96.6,    96.6,    0.0);
( 471744.0, 3673520.0,    97.0,    97.0,    0.0);    ( 471757.4,
3673526.3,    97.2,    97.2,    0.0);
( 471772.1, 3673529.3,    98.1,    98.1,    0.0);    ( 471790.5,
3673538.5,    98.8,    98.8,    0.0);
( 471805.1, 3673548.1,    99.3,    99.3,    0.0);    ( 471821.5,
3673558.5,    99.7,    99.7,    0.0);
( 471837.0, 3673569.4,   100.4,   100.4,    0.0);    ( 471849.9,
3673583.7,   100.6,   100.6,    0.0);
( 471870.0, 3673590.3,   101.8,   101.8,    0.0);    ( 471888.4,
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( 471908.1, 3673579.5,   102.4,   108.3,    0.0);    ( 471918.5,
3673560.2,   103.7,   108.3,    0.0);
( 471928.2, 3673537.2,   105.2,   105.2,    0.0);    ( 471939.5,
3673518.0,   105.8,   105.8,    0.0);
( 471983.4, 3673555.6,   107.8,   107.8,    0.0);    ( 471992.6,
3673600.0,   101.5,   108.4,    0.0);
( 471957.6, 3673575.8,   108.2,   108.2,    0.0);    ( 472017.2,
3673601.4,   102.5,   108.4,    0.0);
( 472041.7, 3673604.2,   102.9,   108.7,    0.0);    ( 472062.9,
3673605.8,   103.0,   108.8,    0.0);
( 472085.2, 3673606.2,   103.1,   114.1,    0.0);    ( 472110.9,
3673606.4,   103.2,   114.1,    0.0);
( 472151.6, 3673605.5,   103.2,   114.1,    0.0);    ( 472184.8,
3673596.6,   104.7,   114.1,    0.0);
( 472002.6, 3673563.0,   107.8,   107.8,    0.0);    ( 472026.8,
3673567.5,   107.9,   107.9,    0.0);

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^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24

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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(472046.9, 3673570.8, 108.2, 108.2,	0.0);	(472068.8,
3673573.7, 108.5, 108.5, 0.0);		
(472087.3, 3673580.2, 108.0, 108.0,	0.0);	(472111.6,
3673584.6, 107.3, 108.8, 0.0);		
(472130.4, 3673578.0, 108.8, 114.1,	0.0);	(472211.0,
3673560.9, 112.9, 112.9, 0.0);		
(472231.8, 3673546.5, 113.7, 114.0,	0.0);	(472186.1,
3673557.6, 113.6, 113.6, 0.0);		
(472274.0, 3673558.4, 109.1, 114.0,	0.0);	(472253.3,
3673535.9, 112.5, 113.8, 0.0);		
(472236.4, 3673525.0, 113.2, 113.2,	0.0);	(472174.7,
3673541.0, 112.6, 113.5, 0.0);		
(472148.1, 3673552.8, 109.5, 114.1,	0.0);	(472339.6,
3673555.8, 98.2, 118.2, 0.0);		
(472371.6, 3673560.2, 99.2, 118.7,	0.0);	(472390.3,
3673573.0, 100.6, 118.7, 0.0);		
(472413.5, 3673583.8, 101.5, 118.7,	0.0);	(472436.6,
3673583.8, 102.0, 119.8, 0.0);		
(472456.3, 3673580.4, 104.2, 119.8,	0.0);	(472476.0,
3673580.4, 106.3, 118.7, 0.0);		
(473397.9, 3674031.9, 77.0, 141.6,	0.0);	(473407.2,
3674069.6, 75.5, 141.6, 0.0);		
(473485.4, 3674092.2, 77.4, 141.6,	0.0);	(473492.3,
3674103.2, 76.5, 141.4, 0.0);		
(473503.9, 3674109.0, 76.3, 141.4,	0.0);	(473513.2,
3674114.8, 76.4, 141.3, 0.0);		
(473524.8, 3674121.1, 77.2, 93.8,	0.0);	(473545.0,
3674132.7, 76.7, 94.0, 0.0);		
(473557.8, 3674136.2, 76.8, 95.0,	0.0);	(473569.4,
3674139.1, 77.1, 100.8, 0.0);		
(473566.5, 3674148.3, 76.5, 100.8,	0.0);	(473579.2,
3674148.3, 77.7, 100.8, 0.0);		
(473587.9, 3674153.7, 78.0, 100.8,	0.0);	(473602.8,
3674155.0, 77.8, 111.0, 0.0);		
(473596.7, 3674164.8, 76.6, 111.0,	0.0);	(473610.0,
3674159.6, 77.3, 111.2, 0.0);		
(473618.5, 3674167.6, 76.4, 111.6,	0.0);	(473627.2,
3674173.8, 76.5, 111.6, 0.0);		
(473634.7, 3674177.6, 76.9, 111.6,	0.0);	(473543.0,
3674092.3, 77.9, 118.0, 0.0);		
(473556.3, 3674099.7, 78.1, 118.0,	0.0);	(473565.8,
3674102.6, 78.2, 118.2, 0.0);		
(473595.9, 3674115.9, 78.2, 118.2,	0.0);	(473604.1,
3674119.8, 78.2, 118.2, 0.0);		
(473624.4, 3674129.8, 77.7, 118.2,	0.0);	(473635.0,
3674137.0, 77.8, 118.2, 0.0);		
(473645.5, 3674144.4, 78.5, 118.2,	0.0);	(473655.5,
3674148.6, 78.7, 118.2, 0.0);		
(473664.5, 3674154.0, 77.9, 118.2,	0.0);	(473645.0,

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3674183.5,      77.0,      111.6,      0.0);
( 473659.6, 3674192.5,      76.5,      113.2,      0.0);      ( 473670.7,
3674201.5,      76.3,      114.5,      0.0);
( 473680.2, 3674207.2,      77.1,      114.5,      0.0);      ( 473708.0,
3674178.6,      77.8,      118.0,      0.0);
( 473690.7, 3674211.0,      77.9,      113.2,      0.0);      ( 473701.3,
3674217.2,      78.1,      114.5,      0.0);
( 473721.1, 3674182.5,      78.5,      118.0,      0.0);      ( 473729.5,
3674187.9,      78.2,      118.8,      0.0);
( 473712.1, 3674220.0,      78.0,      114.5,      0.0);      ( 473688.2,
3674162.4,      77.5,      118.2,      0.0);
( 473668.4, 3674095.2,      93.7,      93.7,      0.0);      ( 473686.6,
3674094.7,      93.6,      93.6,      0.0);
( 473704.8, 3674096.2,      93.7,      93.7,      0.0);      ( 473720.6,
3674099.6,      93.5,      93.5,      0.0);
( 473731.4, 3674110.5,      93.8,      93.8,      0.0);      ( 473740.3,
3674117.9,      94.8,      94.8,      0.0);
( 473755.1, 3674126.2,      95.0,      95.0,      0.0);      ( 473763.4,
3674136.6,      94.3,      103.5,      0.0);
( 473777.7, 3674144.9,      94.8,      103.5,      0.0);      ( 473171.5,
3673516.3,      119.8,      141.6,      0.0);
( 473163.4, 3673543.0,      120.4,      141.6,      0.0);      ( 473197.0,
3673539.5,      117.9,      141.6,      0.0);
( 473211.5, 3673554.6,      117.3,      141.6,      0.0);      ( 473228.3,
3673568.5,      115.2,      141.6,      0.0);
( 473241.0, 3673587.0,      113.1,      141.6,      0.0);      ( 473261.3,
3673600.3,      111.0,      141.6,      0.0);
( 473272.3, 3673618.9,      108.7,      141.6,      0.0);      ( 473286.8,
3673637.4,      105.9,      141.6,      0.0);
( 473298.9, 3673655.9,      103.4,      141.6,      0.0);      ( 473314.6,
3673674.5,      101.0,      141.6,      0.0);
( 473305.3, 3673533.1,      112.7,      141.6,      0.0);      ( 473300.7,
3673510.5,      113.2,      141.4,      0.0);
( 473318.0, 3673543.0,      112.5,      141.4,      0.0);      ( 473330.8,
3673560.3,      110.3,      141.6,      0.0);
( 473344.1, 3673577.7,      110.1,      141.6,      0.0);      ( 473358.0,
3673590.5,      108.5,      141.6,      0.0);
( 473365.6, 3673606.7,      107.5,      141.6,      0.0);      ( 473380.0,
3673624.1,      106.7,      141.6,      0.0);
( 473387.0, 3673642.0,      104.5,      141.6,      0.0);      ( 473398.0,
3673662.3,      103.3,      141.6,      0.0);

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^ *** AERMOD - VERSION 23132 ***      *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Trolley Place Con ***      03/18/24
*** AERMET - VERSION 22112 ***      ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(473410.2, 3673680.8, 100.3, 141.6, 0.0);	(473416.0,
3673700.0, 98.4, 141.6, 0.0);	
(473423.5, 3673718.5, 97.4, 141.6, 0.0);	(473430.4,
3673735.3, 95.5, 141.6, 0.0);	
(473438.5, 3673754.4, 93.6, 141.6, 0.0);	(473445.5,
3673773.5, 90.8, 141.6, 0.0);	
(473446.1, 3673795.5, 88.4, 141.6, 0.0);	(473450.1,
3673810.0, 88.0, 141.6, 0.0);	
(473453.6, 3673831.5, 86.1, 141.6, 0.0);	(473723.1,
3674226.8, 77.6, 115.4, 0.0);	
(473730.0, 3674231.2, 78.0, 115.4, 0.0);	(473742.8,
3674239.6, 79.1, 114.5, 0.0);	
(473755.4, 3674243.5, 79.6, 114.5, 0.0);	(473764.0,
3674249.0, 80.1, 113.2, 0.0);	
(473780.8, 3674257.4, 80.0, 114.5, 0.0);	(473797.1,
3674265.0, 81.0, 113.2, 0.0);	
(473811.0, 3674270.8, 81.9, 113.2, 0.0);	(473821.0,
3674276.6, 82.6, 108.8, 0.0);	
(473829.6, 3674283.6, 82.3, 107.8, 0.0);	(473840.9,
3674288.9, 82.5, 107.8, 0.0);	
(473852.9, 3674293.3, 82.5, 107.8, 0.0);	(473850.3,
3674302.0, 81.7, 107.8, 0.0);	
(473878.1, 3674323.5, 81.0, 101.8, 0.0);	(473883.6,
3674313.3, 82.7, 101.8, 0.0);	
(473742.8, 3674195.3, 78.8, 118.8, 0.0);	(473751.7,
3674202.9, 79.2, 118.8, 0.0);	
(473765.6, 3674208.7, 80.0, 118.0, 0.0);	(473785.5,
3674218.6, 80.3, 118.8, 0.0);	
(473806.5, 3674227.5, 81.5, 118.0, 0.0);	(473816.0,
3674241.2, 81.7, 116.8, 0.0);	
(473820.7, 3674229.6, 82.5, 118.0, 0.0);	(473828.5,
3674219.4, 83.6, 118.0, 0.0);	
(473852.9, 3674255.6, 84.0, 113.7, 0.0);	(473857.1,
3674223.6, 85.1, 118.0, 0.0);	
(473877.3, 3674256.9, 85.5, 113.7, 0.0);	(473885.4,
3674223.6, 87.8, 115.4, 0.0);	
(473884.9, 3674237.0, 87.0, 113.7, 0.0);	(473889.1,
3674246.7, 86.8, 113.7, 0.0);	
(473890.7, 3674259.0, 86.2, 113.2, 0.0);	(473790.3,
3674151.7, 95.9, 103.5, 0.0);	
(473804.5, 3674155.9, 96.3, 103.5, 0.0);	(473817.3,
3674165.6, 95.1, 103.5, 0.0);	
(473831.2, 3674167.9, 95.9, 103.5, 0.0);	(473845.1,
3674175.6, 97.0, 97.0, 0.0);	
(473857.5, 3674180.8, 97.4, 97.4, 0.0);	(473878.7,
3674182.4, 98.2, 98.2, 0.0);	
(473888.4, 3674182.9, 98.6, 98.6, 0.0);	(473909.6,

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( 473921.2, 3674213.0,      90.4,      113.7,      0.0);      ( 473924.3,
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( 473925.4, 3674235.9,      87.7,      117.1,      0.0);      ( 473928.0,
3674250.0,      86.8,      117.1,      0.0);
( 473920.9, 3674166.1,      99.3,      99.3,      0.0);      ( 473905.7,
3674343.9,      80.8,      99.8,      0.0);
( 473905.7, 3674331.6,      81.9,      99.8,      0.0);      ( 473902.4,
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( 473903.1, 3674308.4,      83.6,      99.8,      0.0);      ( 473902.0,
3674297.5,      84.2,      101.7,      0.0);
( 473895.9, 3674285.5,      84.8,      107.8,      0.0);      ( 473927.8,
3674277.2,      85.9,      107.8,      0.0);
( 473931.4, 3674289.5,      85.1,      107.8,      0.0);      ( 473934.7,
3674298.9,      84.5,      107.1,      0.0);
( 473935.8, 3674310.9,      83.6,      107.1,      0.0);      ( 473936.9,
3674321.8,      82.6,      107.1,      0.0);
( 473938.7, 3674332.7,      81.7,      107.1,      0.0);      ( 473938.3,
3674343.9,      80.8,      107.1,      0.0);
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3674068.3,      70.7,      141.6,      0.0);
( 472708.4, 3674302.4,      96.5,      110.4,      0.0);      ( 473244.9,
3674859.0,      105.7,      105.7,      0.0);
( 474401.1, 3673529.7,      110.4,      115.1,      0.0);      ( 474394.3,
3673517.5,      110.4,      110.4,      0.0);
( 474388.8, 3673491.2,      110.4,      110.4,      0.0);      ( 474387.9,
3673473.5,      110.4,      110.4,      0.0);
( 474390.2, 3673453.6,      110.1,      110.1,      0.0);      ( 474388.8,
3673440.0,      110.0,      110.0,      0.0);
( 474382.5, 3673420.0,      109.9,      109.9,      0.0);      ( 474383.8,
3673398.3,      109.8,      109.8,      0.0);
( 474432.8, 3673399.6,      109.7,      109.7,      0.0);      ( 474431.0,
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( 474434.6, 3673467.6,      110.1,      110.1,      0.0);      ( 474429.6,
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( 471878.0, 3675532.1,      81.7,      81.7,      0.0);      ( 471270.0,
3675228.0,      70.7,      70.7,      0.0);
( 471149.8, 3675175.2,      70.1,      70.1,      0.0);      ( 471196.7,
3675152.3,      69.5,      69.5,      0.0);
( 471158.3, 3675127.1,      69.5,      69.5,      0.0);      ( 472890.5,
3671907.1,      81.6,      81.6,      0.0);
( 472162.8, 3673159.4,      101.9,      114.5,      0.0);

```

```

^ *** AERMOD - VERSION 23132 ***      *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Trolley Place Con ***      03/18/24
*** AERMET - VERSION 22112 ***      ***
***      15:18:33

```

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

Surface station no.: 3177
Name: UNKNOWN

Upper air station no.: 3190
Name: UNKNOWN

Year: 2019

Year: 2019

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							
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	
1.00	1.57	25.		7.9	280.3	2.0								
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	
1.00	1.79	35.		7.9	279.8	2.0								
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	
1.00	2.45	31.		7.9	279.2	2.0								
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	
1.00	1.77	41.		7.9	278.1	2.0								
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93	
1.00	2.18	30.		7.9	279.2	2.0								
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93	
1.00	2.10	24.		7.9	278.8	2.0								
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93	
1.00	2.20	6.		7.9	279.8	2.0								
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93	
0.50	3.42	40.		7.9	280.9	2.0								
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93	
0.29	2.61	41.		7.9	283.1	2.0								
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93	
0.22	2.67	7.		7.9	284.8	2.0								
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93	
0.20	2.57	17.		7.9	286.4	2.0								
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93	
0.19	2.62	2.		7.9	287.0	2.0								
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93	
0.19	3.35	353.		7.9	287.5	2.0								
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93	
0.20	2.88	7.		7.9	288.8	2.0								
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93	
0.23	3.07	64.		7.9	288.8	2.0								
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93	
0.32	4.29	87.		7.9	287.0	2.0								
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93	
0.60	3.93	114.		7.9	285.3	2.0								
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93	
1.00	1.53	116.		7.9	283.8	2.0								
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93	
1.00	1.57	98.		7.9	282.0	2.0								
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93	

1.00	1.11	98.	7.9	279.8	2.0							
19 01 01	1 21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93		
1.00	1.43	25.	7.9	279.8	2.0							
19 01 01	1 22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93		
1.00	1.64	39.	7.9	279.2	2.0							
19 01 01	1 23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93		
1.00	2.44	49.	7.9	279.2	2.0							
19 01 01	1 24	-25.8	0.257	-9.000	-9.000	-999.	312.	72.5	0.03	0.93		
1.00	3.83	69.	7.9	280.3	2.0							

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	7.9	1	25.	1.57	280.4	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	473456.89	473480.47	473504.05	473527.63	473551.21
473574.79	473598.37	473621.95	473645.53		

3674086.23	6.53644	5.90712	5.53690	5.19141	4.80102
4.51344	4.23497	3.78128	3.25051		
3674045.49	7.24125	6.53094	6.07609	5.61451	5.07673

4.74570	4.43788	3.91997	3.43232		
3674004.75		7.79710	7.00335	6.43332	5.88151 5.37841
4.95425	4.59077	4.10186	3.64031		
3673964.01		8.13222	7.34949	6.70301	6.11714 5.60064
5.13750	4.73015	4.28159	3.86713		
3673923.27		8.15099	7.39437	6.77263	6.19355 5.59640
5.16241	4.76012	4.35266	3.98743		
3673882.53		7.83211	7.15681	6.58252	6.03818 5.40593
5.02625	4.66835	4.26753	3.70704		
3673841.79		7.17477	6.63402	6.09367	5.61309 5.12389
4.73887	4.25382	3.61733	3.22429		
3673801.05		6.27803	5.86052	5.28682	4.85462 4.51281
4.13043	3.70152	3.40779	3.19234		
3673760.31		5.19919	4.95501	4.49018	4.19556 3.94939
3.72412	3.49173	3.26148	2.84731		
3673719.57		4.35876	4.16825	3.93945	3.75798 3.51172
3.28022	3.09301	2.67936	2.32484		
3673678.83		3.50193	3.35022	3.16423	3.09232 2.86319
2.60562	2.43794	2.27607	2.13343		
3673638.09		2.94770	2.88946	2.80002	2.68986 2.55731
2.39191	2.22180	2.09778	1.96376		
3673597.35		2.31802	2.36060	2.32407	2.23852 2.18539
2.08396	1.96807	1.84600	1.63662		
3673556.61		1.91694	1.83684	1.76473	1.71301 1.68043
1.67686	1.65113	1.58707	1.50190		
3673515.87		1.71002	1.65085	1.59225	1.52467 1.52667
1.50824	1.49683	1.45584	1.40061		
3673475.13		1.39395	1.37592	1.35389	1.33654 1.29446
1.26443	1.25154	1.23864	1.22517		
3673434.39		1.26397	1.25931	1.24330	1.22165 1.19141
1.17257	1.16031	1.15129	1.14548		
3673393.65		1.13888	1.11989	1.14149	1.12587 1.09614
1.09317	1.07870	1.06527	1.05986		
3673352.91		1.05245	1.03241	1.06135	1.05122 1.02404
1.02142	1.01576	0.99266	0.98208		
3673312.17		1.00036	0.99174	0.99526	0.98718 0.95901
0.96398	0.96144	0.94002	0.93256		
3673271.43		0.97933	0.96149	0.94544	0.93310 0.91708
0.91115	0.91114	0.90899	0.91109		

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*** AERMET - VERSION 22112 ***

*** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002


```

, L0000003      , L0000004      , L0000005      ,
                  L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	473669.11	473692.69	473716.27		473739.85	473763.43
473787.01	473810.59	473834.17	473857.75			

3674086.23	2.95248	2.82170	2.67555		2.54423	2.42280
2.23056	2.08699	1.88263	1.77813			
3674045.49	3.18482	3.01378	2.81213		2.60720	2.43344
2.22344	2.09247	1.97200	1.85459			
3674004.75	3.37853	3.19141	2.95533		2.71867	2.52245
2.34419	2.17817	1.98140	1.84454			
3673964.01	3.56260	3.29911	3.01040		2.76958	2.56567
2.35131	2.18582	2.01414	1.76246			
3673923.27	3.65141	3.32552	3.05975		2.81426	2.50082
2.35764	2.21855	2.03253	1.79831			
3673882.53	3.19016	2.90180	2.71181		2.54910	2.39199
2.28165	2.16400	2.00162	1.84611			
3673841.79	3.04623	2.87266	2.68892		2.50329	2.29719
2.15543	2.02250	1.85675	1.72730			
3673801.05	2.97386	2.68273	2.36549		2.13416	1.92869
1.79265	1.70257	1.62506	1.56050			
3673760.31	2.41457	2.15211	2.00880		1.89016	1.76707
1.67782	1.59682	1.52998	1.48249			
3673719.57	2.14218	2.03042	1.90576		1.77252	1.66596
1.57010	1.48363	1.38857	1.32922			
3673678.83	2.01464	1.90527	1.76031		1.59176	1.51704
1.39645	1.33503	1.28842	1.24718			
3673638.09	1.73119	1.56584	1.50605		1.44245	1.38275
1.31155	1.25908	1.22254	1.19775			
3673597.35	1.49646	1.43989	1.38820		1.32540	1.26290
1.20827	1.17321	1.14731	1.12835			
3673556.61	1.42631	1.36305	1.30205		1.24887	1.20903
1.17420	1.12253	1.09704	1.07572			
3673515.87	1.34103	1.27845	1.22818		1.19586	1.15174
1.10325	1.08001	1.06928	1.05285			

3673475.13	1.21073	1.19293	1.16957	1.15086	1.12665
1.10501	1.09575	1.08102	1.06283		
3673434.39	1.13679	1.11869	1.10099	1.08169	1.06466
1.04604	1.03527	1.04568	1.03120		
3673393.65	1.05357	1.04416	1.04081	1.03971	1.02905
1.02800	1.01154	1.01771	1.01405		
3673352.91	0.98428	0.98217	0.97695	0.98298	1.01793
1.01251	0.97892	1.00051	0.99919		
3673312.17	0.94997	0.96208	0.94906	0.94356	0.98560
0.98655	0.95319	0.98276	0.97808		
3673271.43	0.92285	0.93187	0.93391	0.93947	0.95703
0.95960	0.95310	0.95577	0.94512		

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 ***
 *** 15:18:33

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)	X-COORD (METERS)		
	473881.33	473904.91	473928.49

3674086.23	1.71857	1.65941	1.56934
3674045.49	1.72595	1.61983	1.52760
3674004.75	1.68365	1.55521	1.48280
3673964.01	1.63834	1.56410	1.48385
3673923.27	1.69166	1.61952	1.50265
3673882.53	1.74766	1.66236	1.51693
3673841.79	1.68312	1.62906	1.48250
3673801.05	1.56013	1.53389	1.40937

3673760.31	1.46473	1.42642	1.33224
3673719.57	1.28562	1.26059	1.23766
3673678.83	1.21536	1.19778	1.18745
3673638.09	1.17511	1.16034	1.14964
3673597.35	1.11703	1.11117	1.10432
3673556.61	1.06008	1.05193	1.05182
3673515.87	1.03552	1.02241	1.01507
3673475.13	1.03766	1.00968	0.98280
3673434.39	1.00398	0.95847	0.92552
3673393.65	0.98457	0.91067	0.86949
3673352.91	0.97303	0.89191	0.84474
3673312.17	0.95523	0.87694	0.83018
3673271.43	0.91816	0.87023	0.83131

^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)				
	473464.30	473489.30	473514.30	473539.30	473564.30
473589.30	473614.30	473639.30	473664.30		

- - - - -
 - - - - -

3674946.42	0.84448	0.82860	0.82204	0.80756	0.80577
0.83025	0.87727	0.88052	0.82137		
3674921.42	0.93347	0.94335	0.93506	0.90296	0.90292
0.93028	0.93538	0.90857	0.86739		
3674896.42	0.94711	0.96907	1.00936	0.99731	0.98462
0.97292	0.95237	0.92942	0.89154		

3674871.42		0.99155	1.02169	1.04293	1.03239	1.01372
0.99580		0.97177	0.94472	0.90843		
3674846.42		1.04448	1.06756	1.09267	1.09565	1.07780
1.05537		1.02580	0.99867	0.95571		
3674821.42		1.14411	1.14723	1.15604	1.15342	1.13012
1.10063		1.07636	1.04091	0.96132		
3674796.42		1.24871	1.23749	1.21954	1.19496	1.16322
1.13004		1.11266	1.06196	0.92844		
3674771.42		1.30058	1.29189	1.26666	1.23353	1.19275
1.17174		1.14821	1.09376	0.94345		
3674746.42		1.34186	1.34392	1.32590	1.29765	1.26586
1.22351		1.18622	1.12528	0.96275		
3674721.42		1.41930	1.40500	1.38579	1.34218	1.28877
1.25204		1.21948	1.15318	0.98448		
3674696.42		1.48500	1.47265	1.44667	1.40168	1.33787
1.27954		1.25263	1.17877	1.00811		
3674671.42		1.54197	1.53932	1.51057	1.46980	1.40107
1.31164		1.28425	1.20739	1.03751		
3674646.42		1.60434	1.60944	1.57602	1.52978	1.44939
1.34195		1.31552	1.23864	1.07158		
3674621.42		1.69006	1.68949	1.64669	1.59166	1.49809
1.37841		1.34417	1.26050	1.09520		
3674596.42		1.78274	1.77322	1.72281	1.65743	1.53982
1.40733		1.37550	1.28829	1.13381		
3674571.42		1.87853	1.85950	1.80284	1.72779	1.59179
1.44091		1.40609	1.32652	1.19937		
3674546.42		1.98228	1.95107	1.88727	1.79801	1.64666
1.47517		1.43763	1.36607	1.28011		
3674521.42		2.08821	2.04459	1.97437	1.87197	1.69329
1.50928		1.47012	1.40092	1.34989		
3674496.42		2.20050	2.13860	2.07088	1.95010	1.72545
1.53758		1.49849	1.42489	1.38687		
3674471.42		2.33273	2.25861	2.18209	2.02985	1.75339
1.58437		1.54536	1.48676	1.44255		
3674446.42		2.47092	2.38394	2.29911	2.13609	1.84338
1.63685		1.58913	1.53830	1.48985		

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 ***
 *** 15:18:33

PAGE 56

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

```

, L0000019      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000020      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)					X-COORD (METERS)	
	473689.30	473714.30	473739.30		473764.30	473789.30
473814.30	473839.30	473864.30	473889.30			

- - - - -

3674946.42	0.76308	0.74998	0.72964	0.69288	0.63815
0.62808	0.61069	0.56025	0.54571		
3674921.42	0.81701	0.79419	0.75604	0.71782	0.66575
0.65337	0.63257	0.58075	0.56419		
3674896.42	0.85035	0.81532	0.77994	0.74472	0.70969
0.67636	0.64478	0.61101	0.58430		
3674871.42	0.86563	0.83159	0.79686	0.75753	0.71843
0.68576	0.65066	0.61674	0.59519		
3674846.42	0.88825	0.82343	0.77140	0.73523	0.69749
0.66088	0.63108	0.61391	0.60739		
3674821.42	0.86420	0.80878	0.76004	0.73025	0.69617
0.66202	0.63478	0.62470	0.62320		
3674796.42	0.82489	0.80540	0.78149	0.75762	0.72521
0.69501	0.66591	0.65038	0.64409		
3674771.42	0.84892	0.83344	0.80902	0.78205	0.74519
0.70728	0.68315	0.67513	0.66496		
3674746.42	0.87199	0.85651	0.82461	0.76717	0.74848
0.72244	0.69744	0.69038	0.68817		
3674721.42	0.89874	0.88016	0.84485	0.77495	0.75976
0.73160	0.70732	0.71392	0.71156		
3674696.42	0.92297	0.90611	0.86722	0.78855	0.77278
0.74519	0.72033	0.73762	0.73774		
3674671.42	0.95304	0.93802	0.89204	0.80263	0.78638
0.76093	0.75307	0.76963	0.76445		
3674646.42	0.99696	0.97673	0.92472	0.82198	0.80223
0.78777	0.81836	0.81810	0.79733		
3674621.42	1.03589	1.01957	0.97338	0.91126	0.84875
0.89547	0.87587	0.85005	0.82732		
3674596.42	1.08699	1.06528	1.01462	0.99005	0.95990
0.95052	0.92654	0.88639	0.84676		
3674571.42	1.13416	1.12115	1.09959	1.07134	1.04228
1.00339	0.95832	0.91494	0.89454		
3674546.42	1.19959	1.19340	1.18516	1.14257	1.08631

1.04374	0.98909	0.99314	0.99475		
3674521.42	1.29083	1.26970	1.24173	1.19750	1.11614
1.08363	1.05206	1.13212	1.12455		
3674496.42	1.35138	1.33095	1.31936	1.24087	1.17830
1.22291	1.20300	1.18390	1.21679		
3674471.42	1.39601	1.36093	1.33385	1.34990	1.30067
1.28400	1.29424	1.26544	1.24753		
3674446.42	1.45676	1.48812	1.43620	1.42774	1.38832
1.36657	1.35795	1.32103	1.29066		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	473914.30	473939.30	473964.30	

3674946.42	0.53479	0.52905	0.54273
3674921.42	0.55154	0.54618	0.56175
3674896.42	0.56513	0.56586	0.58252
3674871.42	0.57629	0.58932	0.59684
3674846.42	0.58881	0.61496	0.62621
3674821.42	0.60290	0.63689	0.66232
3674796.42	0.62082	0.65477	0.69674
3674771.42	0.64300	0.68015	0.70732
3674746.42	0.66310	0.67915	0.73438
3674721.42	0.68914	0.72081	0.77644
3674696.42	0.71331	0.76322	0.81529

3674671.42	0.73926	0.79271	0.84535
3674646.42	0.76862	0.81276	0.87236
3674621.42	0.79647	0.83931	0.89519
3674596.42	0.81848	0.88849	0.93765
3674571.42	0.92298	0.96604	0.97912
3674546.42	1.04642	1.03652	1.01480
3674521.42	1.10156	1.07787	1.04455
3674496.42	1.17153	1.13664	1.08296
3674471.42	1.21166	1.18131	1.19346
3674446.42	1.29750	1.27819	1.26320

*** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	472425.37	472475.37	472525.37	472575.37	472625.37
472675.37	472725.37	472775.37	472825.37		

3673501.48	2.39159	2.36967	2.42128	2.37877	2.35649
2.33883	2.26178	2.22146	2.16840		
3673474.26	2.06413	2.09757	2.13805	2.13680	2.11919
2.09750	2.01835	1.97420	1.93279		
3673447.04	1.90135	1.95056	1.97612	1.95569	1.92410
1.89174	1.81934	1.76278	1.73814		
3673419.82	1.81920	1.80037	1.80487	1.77574	1.73881
1.70547	1.63023	1.59387	1.57031		
3673392.60	1.81110	1.70749	1.66279	1.61907	1.56220

1.51716	1.47781	1.44766	1.43555		
3673365.38	1.69134	1.61781	1.55195	1.49214	1.43524
1.38902	1.35052	1.32283	1.31874		
3673338.16	1.54550	1.48929	1.42219	1.36093	1.30547
1.27168	1.23650	1.22228	1.21477		
3673310.94	1.43186	1.38453	1.31371	1.24875	1.19779
1.17160	1.14524	1.13519	1.12403		
3673283.72	1.33202	1.28915	1.21359	1.15164	1.10703
1.08535	1.06644	1.05409	1.07228		
3673256.50	1.23490	1.16266	1.09652	1.05108	1.01832
1.00010	0.99198	0.99620	1.10570		
3673229.28	1.13973	1.04676	0.99131	0.95936	0.93991
0.92341	0.92745	0.99934	1.18593		
3673202.06	1.04955	1.00035	0.94408	0.91075	0.90042
0.87726	0.88063	1.04358	1.22215		
3673174.84	0.97911	0.92010	0.88715	0.85194	0.84520
0.82544	0.87454	1.20565	1.18742		
3673147.62	0.92497	0.86837	0.83284	0.80428	0.78881
0.79749	0.97363	1.15245	1.14330		
3673120.40	0.89882	0.86304	0.80503	0.78003	0.76320
0.83859	1.08867	1.11446	1.08018		
3673093.18	0.89648	0.88620	0.81661	0.77642	0.80579
0.93159	1.07990	1.07256	1.02259		
3673065.96	0.87761	0.90517	0.90256	0.86788	0.91086
1.00394	1.03755	1.01801	0.96029		
3673038.74	0.83878	0.88819	0.96035	0.97880	0.98170
1.00755	0.99800	0.96609	0.90893		
3673011.52	0.85908	0.89933	0.95279	0.97782	0.98095
0.96921	0.94453	0.90821	0.87191		
3672984.30	0.97823	0.98903	0.97661	0.95328	0.93941
0.93470	0.87356	0.82999	0.82163		
3672957.08	1.01338	0.99678	0.96981	0.93483	0.89261
0.88834	0.80155	0.79193	0.78147		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	472875.37	472925.37	472975.37	473025.37	473075.37
473125.37	473175.37	473225.37	473275.37		

- - - - -
- - - - -

3673501.48	2.14277	2.12234	2.10499	2.11311	2.11577
2.06446	2.08275	2.11850	1.94217		
3673474.26	1.91579	1.90180	1.88890	1.90176	1.93902
1.90485	1.95310	1.83718	1.69946		
3673447.04	1.71977	1.71134	1.70189	1.71715	1.76539
1.80839	1.73368	1.61561	1.55334		
3673419.82	1.56349	1.55102	1.57008	1.61634	1.63133
1.67508	1.53344	1.49258	1.43454		
3673392.60	1.42765	1.41383	1.47986	1.53762	1.54878
1.53439	1.40853	1.37557	1.33152		
3673365.38	1.30779	1.33698	1.44982	1.45250	1.43387
1.41276	1.30442	1.27778	1.24222		
3673338.16	1.22245	1.35574	1.40907	1.37028	1.33969
1.29382	1.21349	1.19310	1.16146		
3673310.94	1.19605	1.37877	1.34971	1.29570	1.21888
1.17942	1.13403	1.12122	1.10025		
3673283.72	1.24739	1.33954	1.28718	1.19469	1.10334
1.08227	1.06466	1.05792	1.04821		
3673256.50	1.28782	1.28564	1.22477	1.06568	1.01866
1.00279	0.99832	0.99626	0.98950		
3673229.28	1.23615	1.22186	1.14321	0.96877	0.95240
0.93288	0.93133	0.93505	0.93423		
3673202.06	1.21028	1.13028	1.02813	0.94700	0.89838
0.86772	0.87000	0.89433	0.91236		
3673174.84	1.14975	1.02167	0.97762	0.90330	0.84989
0.82057	0.82503	0.84879	0.87362		
3673147.62	1.05834	0.96415	0.94231	0.85846	0.81367
0.78438	0.78654	0.81048	0.82799		
3673120.40	0.97500	0.93358	0.88978	0.82298	0.77826
0.75560	0.76493	0.79029	0.81543		
3673093.18	0.94179	0.90925	0.83555	0.78036	0.74199
0.72802	0.73171	0.75693	0.78529		
3673065.96	0.91841	0.87466	0.80819	0.76010	0.72412
0.70695	0.71002	0.73817	0.76793		
3673038.74	0.88587	0.83597	0.79054	0.74909	0.71420
0.69118	0.70169	0.73247	0.76387		

3673011.52		0.83725	0.79080	0.75128	0.71361	0.68513
0.67128		0.68119	0.71917	0.74655		
3672984.30		0.76987	0.73231	0.70711	0.66662	0.65374
0.65113		0.65573	0.72635	0.74009		
3672957.08		0.74152	0.71236	0.68398	0.64469	0.63000
0.64508		0.64120	0.69707	0.70881		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)		X-COORD (METERS)		
		473325.37	473375.37	473425.37

3673501.48		1.81115	1.68142	1.59422
3673474.26		1.58159	1.48666	1.41099
3673447.04		1.47165	1.38947	1.33199
3673419.82		1.36704	1.29251	1.24520
3673392.60		1.27832	1.21382	1.17213
3673365.38		1.19896	1.14732	1.10903
3673338.16		1.12646	1.08819	1.05111
3673310.94		1.07517	1.05178	1.02079
3673283.72		1.03599	1.02711	1.00800
3673256.50		0.98266	0.98136	0.97520
3673229.28		0.93261	0.93542	0.93690
3673202.06		0.93552	0.94589	0.95140
3673174.84		0.89630	0.91362	0.92172
3673147.62		0.85224	0.87029	0.89865

3673120.40		0.84165	0.86446	0.88165
3673093.18		0.81305	0.84102	0.86393
3673065.96		0.79620	0.82487	0.84839
3673038.74		0.79402	0.82015	0.83166
3673011.52		0.77840	0.79796	0.80649
3672984.30		0.77623	0.77939	0.77815
3672957.08		0.74782	0.75200	0.75107

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	471446.84	471494.57	471542.30	471590.03	471637.76
471685.49	471733.22	471780.95	471828.68		

3673517.47		1.14376	1.20508	1.26834	1.33921	1.40851
1.47732		1.54354	1.61752	1.68577		
3673489.71		1.15008	1.20184	1.27291	1.34410	1.41137
1.48470		1.55104	1.60433	1.64970		
3673461.95		1.15899	1.20933	1.26818	1.31933	1.37972
1.46934		1.53119	1.52957	1.55214		
3673434.19		1.16138	1.20921	1.26345	1.30621	1.33898
1.39925		1.44993	1.47132	1.51385		
3673406.43		1.15948	1.20149	1.25632	1.29001	1.31608
1.35666		1.39939	1.43334	1.47700		
3673378.67		1.15845	1.19406	1.24701	1.25611	1.29308
1.33168		1.36905	1.41403	1.45237		

3673350.91		1.15049	1.18328	1.23183	1.21886	1.26235
1.30016		1.33875	1.40063	1.44230		
3673323.15		1.12947	1.16542	1.21008	1.20535	1.23449
1.27637		1.32731	1.37264	1.40098		
3673295.39		1.10402	1.14657	1.18748	1.21281	1.20840
1.24584		1.29012	1.33312	1.35230		
3673267.63		1.06472	1.12924	1.16165	1.19585	1.22195
1.23916		1.25471	1.31511	1.37637		
3673239.87		1.03235	1.10745	1.13093	1.16395	1.20443
1.24301		1.24154	1.27003	1.32744		
3673212.11		1.00708	1.05939	1.10083	1.13327	1.16882
1.19986		1.21408	1.23537	1.26453		
3673184.35		0.98248	0.99557	1.07469	1.10137	1.12920
1.15486		1.18351	1.20218	1.23173		
3673156.59		0.95521	0.96333	1.04218	1.06625	1.08912
1.10916		1.13675	1.16287	1.19092		
3673128.83		0.92574	0.92450	1.00745	1.03024	1.05019
1.05790		1.07731	1.12059	1.14510		
3673101.07		0.90000	0.87620	0.96685	0.99450	1.01323
1.00499		1.01307	1.06071	1.09985		
3673073.31		0.87671	0.82788	0.91557	0.95883	0.97804
0.95327		0.94550	0.97036	1.02124		
3673045.55		0.85251	0.77924	0.85694	0.92437	0.94131
0.89595		0.86812	0.87731	0.89466		
3673017.79		0.82951	0.73204	0.78161	0.88240	0.88620
0.82327		0.81132	0.82953	0.84728		
3672990.03		0.80854	0.70536	0.71183	0.75740	0.75174
0.76012		0.78060	0.79947	0.81831		
3672962.27		0.78126	0.67665	0.68611	0.70262	0.71963
0.73639		0.75399	0.77342	0.79314		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)	
	471876.41	471924.14	471971.87	472019.60	472067.33
472115.06	472162.79	472210.52	472258.25		

3673517.47	1.72595	1.72626	1.78576	1.86250	1.92446
2.00438	1.97356	2.06910	2.27822		
3673489.71	1.61468	1.68979	1.74202	1.83017	1.87702
1.92372	1.90617	1.97538	2.42049		
3673461.95	1.59140	1.64041	1.71704	1.79181	1.82755
1.84062	1.85219	1.89597	2.46635		
3673434.19	1.55214	1.61462	1.68998	1.73596	1.79898
1.76450	1.76315	1.82928	2.37890		
3673406.43	1.52812	1.58780	1.63476	1.68216	1.77189
1.74378	1.65653	1.86333	2.25508		
3673378.67	1.50984	1.54291	1.57996	1.67711	1.74680
1.73772	1.61658	1.94639	2.13346		
3673350.91	1.46495	1.49194	1.58294	1.68029	1.70404
1.71120	1.69108	1.93638	2.01314		
3673323.15	1.42657	1.48098	1.60414	1.62815	1.62196
1.69017	1.76759	1.84217	1.89951		
3673295.39	1.43916	1.51668	1.54474	1.55090	1.58342
1.64807	1.69479	1.75594	1.80035		
3673267.63	1.42850	1.46150	1.47578	1.48489	1.58041
1.61109	1.61457	1.66742	1.71489		
3673239.87	1.36916	1.40153	1.45206	1.48685	1.52755
1.56986	1.54441	1.58106	1.60958		
3673212.11	1.31346	1.35488	1.37189	1.41319	1.45139
1.49624	1.51459	1.47102	1.43631		
3673184.35	1.26859	1.29604	1.30960	1.33800	1.38339
1.42688	1.41138	1.25850	1.19900		
3673156.59	1.21820	1.23103	1.23508	1.27032	1.32242
1.34143	1.21567	1.12147	1.05904		
3673128.83	1.16814	1.17078	1.15718	1.20783	1.27443
1.17327	1.08948	1.05906	1.00457		
3673101.07	1.09979	1.08239	1.09239	1.16168	1.20523
1.05177	1.03494	1.01056	0.96953		
3673073.31	0.99128	0.97854	1.03486	1.11155	1.16261
1.06675	1.01363	0.95840	0.92410		
3673045.55	0.90416	0.92930	0.97461	1.02516	1.11091
1.12648	1.05381	0.95234	0.89794		
3673017.79	0.87015	0.89453	0.91928	0.96017	1.03566
1.07988	1.08688	1.03472	0.95023		
3672990.03	0.84155	0.86532	0.88576	0.93093	0.99367

1.02680 1.04838 1.04925 1.02293
3672962.27 | 0.81623 0.83548 0.85663 0.92570 0.97225
0.98349 1.00062 1.01113 1.01551

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*** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:
GRIDCART ***

*** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)				X-COORD (METERS)
	472305.98	472353.71	472401.44	
3673517.47	2.92900	3.01656	2.82495	
3673489.71	2.83889	2.70939	2.45629	
3673461.95	2.66452	2.43653	2.17579	
3673434.19	2.49089	2.21610	2.02397	
3673406.43	2.35098	2.07850	1.93152	
3673378.67	2.21811	1.95925	1.80805	
3673350.91	2.05739	1.77724	1.64254	
3673323.15	1.87118	1.55853	1.50205	
3673295.39	1.70494	1.43077	1.39288	
3673267.63	1.64797	1.34348	1.29499	
3673239.87	1.60538	1.46725	1.25750	
3673212.11	1.39880	1.19295	1.11122	
3673184.35	1.14701	1.05107	1.01475	
3673156.59	1.02872	0.97837	0.95524	
3673128.83	0.97375	0.93386	0.91382	
3673101.07	0.92110	0.89700	0.89306	
3673073.31	0.86244	0.85619	0.87188	

3673045.55		0.83200	0.82105	0.83186
3673017.79		0.88338	0.82677	0.81595
3672990.03		0.97169	0.93376	0.94662
3672962.27		0.99983	0.98300	1.00841

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** 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		
473153.71	3673931.17	83.37881	473149.56
3673875.16	73.69468		
473169.12	3673885.24	60.44641	473187.20
3673893.54	49.80305		
473173.57	3673940.36	58.36403	473190.16
3673947.47	46.75351		
473207.35	3673954.88	37.63633	473228.98
3673963.77	29.25332		
473203.50	3673901.84	41.88109	473221.28
3673910.73	35.34852		
473238.76	3673917.54	30.13562	473243.80
3673971.77	24.86014		
473255.66	3673926.43	25.96444	473262.17
3673977.40	21.41095		
473281.44	3673979.18	18.66830	473277.29
3673930.58	21.71507		
473294.48	3673931.77	19.08326	473297.14

3673977.40	17.07670		
473299.13	3674008.66	15.08711	473317.21
3673975.17	15.32733		
473333.80	3673968.06	14.32998	473353.07
3673967.47	13.02740		
473342.10	3673988.51	13.20774	473335.58
3674011.63	12.72240		
473335.58	3674032.67	11.70120	473358.10
3674038.89	10.46232		
473375.89	3674042.74	9.61575	473400.78
3674009.85	9.59203		
473403.45	3673987.32	9.90200	473399.60
3673968.65	10.32684		
473313.95	3673927.16	16.73757	473333.51
3673924.20	14.88448		
473352.77	3673925.09	13.39642	473347.14
3673891.30	13.05607		
473344.47	3673869.07	12.24595	473312.17
3673876.48	13.83055		
473294.39	3673875.00	15.19526	473272.45
3673871.44	16.94998		
473252.30	3673864.63	18.68085	473233.63
3673854.85	19.93906		
473218.52	3673848.03	20.59261	473203.70
3673839.14	21.01501		
473183.25	3673832.62	23.13307	473178.65
3673787.55	14.81168		
473199.57	3673778.84	12.24490	473221.53
3673784.07	11.99725		
473238.62	3673798.36	12.89997	473251.17
3673813.36	13.54626		
473267.56	3673818.93	13.01094	473287.78
3673826.61	12.72584		
473322.99	3673830.44	11.39957	473313.23
3673806.38	10.40067		
473316.37	3673785.11	9.06017	473339.73
3673772.21	7.88311		
473365.80	3673780.63	7.65421	473378.29
3673797.66	7.94557		
473383.97	3673819.24	8.44008	473388.51
3673840.24	9.11073		
473394.76	3673861.82	9.56363	473395.89
3673885.66	10.07987		
473400.44	3673902.70	10.13562	473401.57
3673926.54	10.37840		
473161.98	3673711.36	5.98683	473182.42
3673717.04	6.02470		
473199.45	3673722.72	6.05532	473218.75
3673726.13	5.98559		
473242.03	3673738.62	6.33613	473260.20

3673742.59	6.23367		
473281.21	3673739.75	6.01639	473305.62
3673733.51	5.80021		
473325.49	3673723.29	5.36578	473345.37
3673714.25	5.05607		
473178.56	3673658.05	4.18206	473200.27
3673666.26	4.33317		
473221.03	3673675.43	4.47746	473240.81
3673685.08	4.56142		
473268.32	3673691.35	4.67800	473236.95
3673648.88	3.82543		
473218.13	3673630.06	3.49307	473198.83
3673615.10	3.24934		

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 *** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
473170.35	3673597.25	3.05058	472494.58
3673583.24	3.35403		
472515.95	3673581.24	3.26028	472535.32
3673580.57	3.23190		
472553.36	3673579.23	3.20876	472578.07
3673579.23	3.21915		
472596.11	3673569.88	3.09908	472618.15
3673561.87	3.03002		

472638.19	3673564.54	3.06594	472659.57
3673559.86	3.00526		
472682.28	3673555.85	2.94752	472700.31
3673559.19	2.98562		
472723.69	3673565.21	3.05481	472742.39
3673572.55	3.16034		
472763.10	3673577.23	3.22958	472783.14
3673586.58	3.38116		
472803.85	3673595.93	3.53391	472821.21
3673601.94	3.63827		
472839.92	3673613.30	3.87823	472862.63
3673613.97	3.85611		
472884.67	3673613.97	3.82185	472906.05
3673613.30	3.77437		
472926.75	3673615.30	3.78993	472946.12
3673617.31	3.81254		
472963.49	3673617.31	3.79424	472986.20
3673613.30	3.68166		
473002.23	3673613.30	3.66674	473023.61
3673613.30	3.64034		
473040.98	3673612.63	3.59767	473057.01
3673614.64	3.60593		
473080.39	3673615.30	3.55608	473093.07
3673596.21	3.17670		
473089.24	3673574.25	2.85122	473056.11
3673565.53	2.77764		
473035.19	3673565.18	2.78758	473013.92
3673564.13	2.78112		
472994.74	3673566.23	2.81736	472972.43
3673565.88	2.82083		
472950.46	3673566.23	2.83959	472931.28
3673565.18	2.83988		
472907.92	3673565.53	2.86750	472887.00
3673564.83	2.87700		
472853.87	3673563.79	2.89879	472857.36
3673541.82	2.58844		
472804.36	3673545.30	2.68749	472775.77
3673535.48	2.59606		
472783.56	3673515.38	2.35322	472816.38
3673526.04	2.43410		
472733.10	3673520.71	2.46317	472697.41
3673510.46	2.40214		
471413.35	3673545.19	1.08365	471391.54
3673536.33	1.06423		
471413.35	3673498.17	1.11197	471407.21
3673476.37	1.11445		
471383.37	3673433.44	1.09806	471411.98
3673429.35	1.12926		
471413.35	3673451.16	1.12799	471347.93
3673438.89	1.06016		

471462.00	3673587.42	1.11611	471482.09
3673581.15	1.14608		
471497.99	3673576.12	1.16940	471516.82
3673569.01	1.20069		
471531.47	3673562.32	1.22519	471549.88
3673559.39	1.25596		
471564.95	3673552.69	1.28284	471583.36
3673548.92	1.31115		
471600.52	3673543.07	1.34026	471615.16
3673537.63	1.36601		
471633.57	3673528.00	1.39798	471651.15
3673525.49	1.42795		
471667.89	3673519.21	1.45165	471687.14
3673515.87	1.47722		
471705.13	3673517.54	1.50502	471726.05
3673518.38	1.53571		
471744.05	3673520.05	1.56342	471757.44
3673526.33	1.58303		
471772.08	3673529.26	1.59606	471790.50
3673538.46	1.61768		
471805.14	3673548.09	1.63423	471821.46
3673558.55	1.65501		

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 *** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

471836.95	3673569.43	1.66753	471849.92
3673583.66	1.68248		
471870.00	3673590.35	1.69448	471888.42
3673587.84	1.74236		
471908.08	3673579.47	1.77262	471918.55
3673560.22	1.76940		
471928.17	3673537.21	1.74973	471939.47
3673517.96	1.74457		
471983.41	3673555.62	1.80098	471992.61
3673599.98	2.00268		
471957.59	3673575.85	1.73143	472017.22
3673601.40	2.04285		
472041.69	3673604.24	2.10231	472062.88
3673605.77	2.16357		
472085.16	3673606.21	2.22896	472110.93
3673606.43	2.31152		
472151.56	3673605.55	2.45365	472184.77
3673596.60	2.50125		
472002.59	3673562.96	1.84500	472026.83
3673567.54	1.90237		
472046.93	3673570.82	1.94297	472068.77
3673573.66	1.98982		
472087.34	3673580.21	2.06025	472111.59
3673584.58	2.15336		
472130.37	3673578.03	2.14917	472211.03
3673560.94	2.20162		
472231.85	3673546.55	2.18289	472186.10
3673557.60	2.10839		
472273.99	3673558.37	2.49429	472253.30
3673535.90	2.22710		
472236.37	3673525.02	2.12932	472174.69
3673541.04	2.06906		
472148.08	3673552.84	2.13377	472339.60
3673555.79	3.20383		
472371.60	3673560.22	3.29161	472390.31
3673573.02	3.37145		
472413.45	3673583.85	3.48741	472436.59
3673583.85	3.53983		
472456.28	3673580.41	3.44077	472475.97
3673580.41	3.37726		
473397.91	3674031.92	9.12196	473407.17
3674069.58	7.90455		
473485.37	3674092.17	5.73122	473492.32
3674103.17	5.50154		
473503.91	3674108.97	5.26233	473513.18
3674114.76	5.05505		
473524.76	3674121.13	4.79260	473545.04
3674132.71	4.45662		
473557.78	3674136.19	4.28667	473569.36

3674139.09	4.13520		
473566.47	3674148.35	4.09443	473579.21
3674148.35	3.93486		
473587.93	3674153.70	3.80489	473602.83
3674154.99	3.68424		
473596.66	3674164.75	3.69146	473610.03
3674159.61	3.60956		
473618.51	3674167.58	3.51462	473627.25
3674173.75	3.40533		
473634.70	3674177.61	3.31461	473542.95
3674092.27	4.88810		
473556.31	3674099.73	4.63945	473565.82
3674102.56	4.50036		
473595.89	3674115.92	4.06566	473604.12
3674119.78	3.95547		
473624.42	3674129.80	3.72045	473634.96
3674137.00	3.58170		
473645.50	3674144.45	3.43034	473655.52
3674148.56	3.32574		
473664.52	3674153.96	3.25462	473644.98
3674183.52	3.20507		
473659.63	3674192.51	3.07559	473670.69
3674201.51	2.96438		
473680.20	3674207.16	2.85807	473707.95
3674178.63	2.86082		
473690.73	3674211.02	2.76464	473701.27
3674217.19	2.67741		
473721.06	3674182.49	2.75747	473729.54
3674187.89	2.69826		
473712.07	3674220.01	2.61831	473688.16
3674162.44	3.06708		

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 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

473668.41	3674095.22	2.90052	473686.62
3674094.73	2.80911		
473704.84	3674096.20	2.70169	473720.60
3674099.65	2.61579		
473731.43	3674110.48	2.50322	473740.29
3674117.87	2.39426		
473755.07	3674126.24	2.29355	473763.44
3674136.58	2.24859		
473777.71	3674144.95	2.14613	473171.49
3673516.32	2.17177		
473163.38	3673542.97	2.41305	473196.98
3673539.49	2.34623		
473211.46	3673554.56	2.45872	473228.26
3673568.46	2.58821		
473241.01	3673587.00	2.78897	473261.28
3673600.32	2.92246		
473272.29	3673618.86	3.18479	473286.77
3673637.39	3.51125		
473298.94	3673655.93	3.89428	473314.58
3673674.47	4.30077		
473305.31	3673533.12	2.13859	473300.67
3673510.53	2.00177		
473318.05	3673542.97	2.17180	473330.80
3673560.35	2.32096		
473344.12	3673577.73	2.40570	473358.02
3673590.47	2.51776		
473365.56	3673606.69	2.66739	473380.04
3673624.07	2.79668		
473386.99	3673642.03	3.07581	473398.00
3673662.30	3.31315		
473410.16	3673680.84	3.71046	473415.95
3673699.96	4.10700		
473423.48	3673718.50	4.41003	473430.44
3673735.30	4.80311		
473438.55	3673754.41	5.23590	473445.50
3673773.53	5.75250		
473446.08	3673795.54	6.37788	473450.13
3673810.02	6.57111		
473453.61	3673831.46	7.00375	473723.15
3674226.75	2.54631		

473729.97	3674231.21	2.48788	473742.81
3674239.60	2.37380		
473755.40	3674243.53	2.29658	473764.05
3674249.03	2.23340		
473780.83	3674257.42	2.14683	473797.09
3674265.03	2.04802		
473810.98	3674270.80	1.96625	473820.95
3674276.56	1.90543		
473829.60	3674283.64	1.86555	473840.87
3674288.89	1.81897		
473852.93	3674293.34	1.77626	473850.31
3674302.00	1.77080		
473878.10	3674323.50	1.66358	473883.61
3674313.27	1.64913		
473742.81	3674195.29	2.58701	473751.73
3674202.89	2.50235		
473765.62	3674208.66	2.40313	473785.55
3674218.62	2.28108		
473806.53	3674227.54	2.14708	473815.96
3674241.17	2.06350		
473820.68	3674229.63	2.07504	473828.55
3674219.41	2.06172		
473852.93	3674255.59	1.86404	473857.13
3674223.60	1.92788		
473877.32	3674256.90	1.76733	473885.44
3674223.60	1.79309		
473884.92	3674236.97	1.77364	473889.11
3674246.68	1.74085		
473890.69	3674259.00	1.71697	473790.34
3674151.70	2.04251		
473804.49	3674155.89	1.97271	473817.34
3674165.59	1.93996		
473831.24	3674167.95	1.86921	473845.13
3674175.56	1.78017		
473857.46	3674180.80	1.72314	473878.69
3674182.37	1.64845		
473888.40	3674182.90	1.61440	473909.63
3674178.96	1.55826		
473921.17	3674213.05	1.67498	473924.32
3674226.68	1.68097		

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
473925.37	3674235.86	1.66924	473927.99
3674250.02	1.64675		
473920.91	3674166.12	1.56599	473905.67
3674343.94	1.56000		
473905.67	3674331.60	1.57204	473902.40
3674319.99	1.59336		
473903.12	3674308.37	1.60683	473902.04
3674297.49	1.62734		
473895.87	3674285.51	1.66093	473927.80
3674277.16	1.59664		
473931.43	3674289.50	1.57285	473934.70
3674298.94	1.55684		
473935.79	3674310.91	1.53993	473936.87
3674321.80	1.52833		
473938.69	3674332.69	1.51383	473938.33
3674343.94	1.50312		
473937.24	3674356.28	1.48568	472973.34
3674068.27	20.03960		
472708.40	3674302.45	2.95619	473244.94
3674859.00	0.82437		
474401.07	3673529.71	0.71251	474394.27
3673517.47	0.70758		
474388.83	3673491.19	0.69123	474387.92
3673473.52	0.67934		
474390.19	3673453.58	0.66684	474388.83
3673439.98	0.65891		
474382.49	3673420.04	0.64802	474383.85
3673398.29	0.63388		
474432.79	3673399.65	0.61550	474430.98
3673418.23	0.62635		
474434.60	3673467.63	0.65558	474429.62

3673520.65	0.69079		
471878.05	3675532.07	0.47429	471270.02
3675228.05	0.39737		
471149.85	3675175.18	0.37536	471196.72
3675152.34	0.39017		
471158.26	3675127.11	0.38422	472890.48
3671907.11	0.31305		
472162.82	3673159.42	1.23871	

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 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
473527.63	473456.89	473480.47	473504.05
	473551.21		

3674086.2	62.02397 (21122507)	69.92202 (19122424)	66.04218 (19122424)
62.38106 (20020819)	63.49229 (20020819)		
3674045.5	67.46165 (20020819)	74.60454 (20020819)	69.04082 (20020819)
66.11508 (20020819)	70.33212 (19022619)		
3674004.7	75.43229 (19011618)	79.21112 (19011618)	75.29223 (19011618)
73.45532 (21022618)	72.08613 (21022618)		
3673964.0	81.25673 (20021820)	79.21663 (20021820)	75.35747 (19120917)
72.92297 (19120917)	70.70595 (19120917)		
3673923.3	85.08553 (20012818)	80.55334 (20012818)	75.52532 (21020218)
72.17784 (21020218)	73.06993 (21010617)		

3673882.5	85.28173 (20120717)	80.41626 (20120717)	75.35107 (20120717)
72.14546 (20120717)	73.40346 (20012620)		
3673841.8	85.30743 (20021919)	79.86780 (20021919)	76.81941 (20021919)
74.18288 (20021919)	73.01379 (20021919)		
3673801.0	85.42742 (19022824)	81.33312 (19022824)	80.08445 (19022824)
78.03375 (21011017)	75.83627 (21011017)		
3673760.3	86.48701 (21011618)	82.13238 (20122518)	81.60760 (20122518)
79.58400 (21020308)	77.11852 (21020308)		
3673719.6	82.49103 (19022519)	79.77685 (21020919)	77.92216 (19010920)
75.66815 (19010920)	73.62325 (21011618)		
3673678.8	78.58624 (21010917)	76.28010 (21010917)	73.17087 (21010917)
71.62942 (20012119)	69.25435 (20021719)		
3673638.1	71.13583 (21120908)	71.17464 (21120908)	70.16505 (21010917)
69.32869 (21010917)	67.75749 (21010917)		
3673597.3	65.91574 (20101607)	65.34654 (20120918)	64.57271 (20120918)
62.85373 (19121118)	62.32466 (21120908)		
3673556.6	58.74545 (21013120)	58.03445 (20101607)	58.52145 (20101607)
58.41204 (20101607)	57.68019 (20101607)		
3673515.9	55.01468 (21021020)	54.49750 (21013120)	54.00549 (21013120)
52.38125 (21122221)	53.58649 (20101607)		
3673475.1	49.35178 (19022520)	48.98227 (19022520)	48.56687 (20110420)
48.69586 (21013120)	48.51008 (21013120)		
3673434.4	47.21855 (20122019)	47.42573 (19022520)	47.70197 (19022520)
46.81446 (19022520)	46.01006 (21021020)		
3673393.6	44.44062 (20021320)	44.62160 (20122019)	45.75879 (20122019)
45.64708 (19022520)	45.16969 (19022520)		
3673352.9	42.65826 (19090305)	42.81879 (19120118)	44.22723 (20021320)
44.40578 (20122019)	43.49166 (20122019)		
3673312.2	41.71133 (19090305)	42.32882 (19090305)	42.90974 (19120118)
43.06969 (20021320)	42.33107 (20122019)		
3673271.4	42.00205 (21091020)	41.51714 (21091020)	41.79908 (19090305)
41.54517 (19090305)	41.53951 (19120118)		

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	473574.79	473598.37	473621.95
473645.53	473669.11		

3674086.2	61.02171 (20020819)	58.98718 (20020819)	64.71958 (20120217)
71.46551 (20120217)	70.93647 (19012718)		
3674045.5	66.92906 (21020318)	64.14508 (21020318)	69.13770 (19123017)
72.87856 (19123017)	70.46095 (19123017)		
3674004.7	69.73438 (21022618)	66.97938 (21022618)	70.02182 (21020619)
71.04562 (21020619)	69.62594 (21120907)		
3673964.0	69.62905 (19012218)	68.09662 (19012218)	69.46882 (19012218)
70.52638 (19020820)	69.49107 (21122017)		
3673923.3	69.97711 (21010617)	68.01177 (21010617)	68.09558 (20012319)
67.46356 (20012319)	67.28187 (20012819)		
3673882.5	69.82992 (20012620)	67.16498 (20012620)	67.51161 (20012620)
72.24619 (20120618)	71.19767 (19120723)		
3673841.8	70.63937 (20021919)	71.70580 (20012521)	74.66848 (20013118)
71.95961 (21122218)	69.49615 (21122218)		
3673801.0	75.16922 (21011017)	73.55718 (21011017)	71.31043 (20121318)
69.24243 (20121318)	67.24789 (20121318)		
3673760.3	74.51504 (21020308)	72.01996 (21020308)	69.50570 (21020308)
66.68001 (21020308)	63.22475 (19020819)		
3673719.6	71.90487 (21011618)	69.84079 (21011618)	66.02462 (21011618)
62.65677 (21020308)	60.40963 (21020308)		
3673678.8	66.43528 (20021719)	64.22417 (20022023)	62.42225 (20022320)
60.58304 (20022320)	58.53854 (20022320)		
3673638.1	65.36339 (21010917)	62.13856 (21010917)	60.25891 (20012119)
58.41522 (20021719)	54.65687 (21021919)		
3673597.3	61.18755 (21010917)	60.53522 (21010917)	59.08547 (21010917)
55.30571 (21010917)	51.58870 (21010917)		
3673556.6	56.36497 (20101607)	54.70688 (20090522)	53.51263 (21122219)
52.17042 (21021820)	51.12722 (21010917)		
3673515.9	54.21753 (20101607)	54.06671 (20101607)	52.95582 (20101607)
51.09448 (20101607)	49.25151 (20090522)		
3673475.1	47.80513 (21013120)	47.61069 (21122221)	48.77606 (20101607)
49.23025 (20101607)	48.95637 (20101607)		
3673434.4	46.01507 (21021020)	46.29331 (21013120)	46.18446 (21013120)
45.92491 (21122221)	45.70662 (21122221)		
3673393.6	44.54286 (19022520)	44.19256 (21021020)	44.28384 (21021020)
44.29694 (21013120)	44.29081 (21013120)		
3673352.9	43.95490 (19022520)	43.84738 (19022520)	42.47857 (19022520)

42.31561 (21021020) 42.76458 (21021020)
3673312.2 | 42.68358 (20122019) 42.27268 (19022520) 42.35011 (19022520)
41.96167 (19022520) 41.26310 (19022520)
3673271.4 | 41.59506 (20021320) 41.40471 (20122019) 41.10640 (20122019)
41.15585 (19022520) 41.52804 (19022520)
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*** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)		X-COORD (METERS)
473763.43	473692.69	473716.27
	473787.01	473739.85

3674086.2	68.93123 (19012718)	66.94985 (19012718)	64.72668 (19012718)
62.22000 (19012718)	60.85624 (20122017)		
3674045.5	67.06797 (19123017)	64.65587 (21120907)	63.94241 (21120907)
62.81466 (21120907)	61.57564 (21120907)		
3674004.7	66.70753 (21020619)	65.45971 (21120907)	64.59588 (20120418)
63.24287 (20120418)	61.71554 (20120418)		
3673964.0	68.19304 (21122017)	67.64885 (20122621)	65.67376 (20122621)
63.43712 (20122621)	61.04099 (20122621)		
3673923.3	67.88902 (20012819)	66.87022 (20012819)	65.08626 (19120807)
63.93092 (19120807)	61.93038 (19120807)		
3673882.5	68.45718 (19120723)	66.03372 (19120723)	63.79913 (19120723)
61.62812 (19120723)	59.81326 (19120723)		
3673841.8	67.13799 (21122218)	64.84309 (21122218)	62.55753 (21122218)
60.04458 (21122218)	57.89447 (21122218)		

3673801.0	65.08162 (20121318)	61.82785 (20121318)	58.47523 (20121318)
54.97522 (20123018)	52.38954 (20123018)		
3673760.3	59.61009 (19020819)	57.22787 (19020819)	55.04422 (19020819)
52.77852 (20021720)	51.14414 (20021720)		
3673719.6	58.86072 (21020308)	56.78648 (21020308)	54.20218 (21020308)
51.84628 (21020308)	49.47230 (21020308)		
3673678.8	56.23466 (20022320)	53.10542 (21011618)	49.86153 (19122718)
48.75535 (20022319)	46.24848 (20022319)		
3673638.1	51.18711 (20120517)	50.20176 (20120517)	49.16135 (20022320)
47.97600 (20022320)	46.12727 (20022320)		
3673597.3	49.23124 (21122222)	48.35827 (21021919)	47.34246 (21021919)
45.90060 (21021919)	44.28036 (21021919)		
3673556.6	50.42544 (21010917)	49.20364 (21010917)	47.64911 (21010917)
45.98328 (21010917)	44.08714 (21122222)		
3673515.9	47.98883 (21122219)	46.94663 (21021820)	46.29077 (21021820)
45.87480 (21010917)	45.09223 (21010917)		
3673475.1	47.98474 (20101607)	46.37904 (20101607)	45.42578 (20090522)
44.57599 (21122219)	44.02049 (21122219)		
3673434.4	45.98215 (20101607)	45.98362 (20101607)	45.40255 (20101607)
44.31199 (20101607)	43.24322 (20090522)		
3673393.6	43.74927 (21122221)	43.83221 (21122221)	43.30793 (21122221)
43.08177 (19122017)	42.74032 (19122017)		
3673352.9	42.37665 (21013120)	42.42943 (21013120)	42.12913 (19010318)
42.81283 (21122221)	42.29798 (21122221)		
3673312.2	41.86377 (21021020)	41.86144 (21021020)	41.33923 (21021020)
41.88184 (21120401)	41.44437 (21120401)		
3673271.4	41.03673 (19022520)	40.13752 (21091222)	40.61757 (21021020)
40.75256 (21021020)	40.35553 (20021620)		

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 *** 15:18:33

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
	473881.33	473810.59	473834.17	473857.75
		473904.91		

3674086.2	59.20594 (20122017)	57.43701 (20122017)	55.06126 (20122017)	
52.71282 (20122017)	50.89287 (21092205)			
3674045.5	59.97963 (21120907)	58.29381 (21120907)	56.50775 (21120907)	
54.50293 (19011918)	52.99282 (19011918)			
3674004.7	60.05239 (20120418)	58.00732 (20120418)	56.03176 (20120418)	
53.53544 (20120418)	51.43384 (20011819)			
3673964.0	58.62118 (20122621)	56.01433 (20122621)	53.27578 (19011802)	
51.38722 (19011802)	50.16715 (19011802)			
3673923.3	60.02223 (19120807)	57.98218 (19120807)	55.02265 (19120807)	
53.11222 (19120807)	51.66020 (19120807)			
3673882.5	57.98388 (19120723)	55.88304 (19051306)	53.77476 (19051306)	
52.14065 (19020821)	50.65272 (19020821)			
3673841.8	55.78852 (21122218)	53.17669 (21122218)	50.86559 (21122218)	
49.85494 (21122218)	48.65742 (21122218)			
3673801.0	50.68712 (20013118)	49.42765 (20013118)	48.36592 (20013118)	
48.58821 (20013118)	48.13551 (20013118)			
3673760.3	49.54140 (20021720)	48.14900 (20021720)	47.11850 (20021720)	
46.65859 (20123018)	46.06722 (20123018)			
3673719.6	47.10260 (21020308)	44.94840 (19020819)	44.00414 (19020819)	
43.39194 (19020819)	43.20349 (19020819)			
3673678.8	45.01851 (20022319)	44.26567 (21020308)	43.67527 (21020308)	
43.19111 (21020308)	42.96359 (21020308)			
3673638.1	44.50638 (20022320)	43.13501 (20022320)	42.24243 (21011618)	
41.82303 (19122718)	41.61872 (19122718)			
3673597.3	43.49437 (20120517)	43.07535 (20120517)	42.86385 (20022320)	
42.77178 (20022320)	42.52235 (20022320)			
3673556.6	42.89403 (20012119)	42.72764 (21021919)	42.35095 (21021919)	
41.81387 (21021919)	41.16555 (21021919)			
3673515.9	44.51551 (21010917)	43.84156 (21010917)	42.65512 (21010917)	
41.13202 (21010917)	40.97488 (20012119)			
3673475.1	43.77636 (21120908)	43.78232 (21010917)	43.81559 (21010917)	
43.36047 (21010917)	42.51418 (21010917)			
3673434.4	42.63408 (20090522)	42.26126 (19121118)	41.82655 (21120908)	
41.47882 (21120908)	40.41896 (21120908)			
3673393.6	42.27147 (20120918)	42.01857 (20120918)	41.26149 (21120424)	
40.29530 (20090522)	39.10987 (19121118)			
3673352.9	41.53814 (19122017)	41.66054 (19122017)	40.91772 (19122017)	
40.14018 (20120518)	38.96928 (20120918)			
3673312.2	40.66987 (21122221)	40.37389 (21122221)	39.84268 (19122017)	
39.63639 (19122017)	38.64273 (19122017)			
3673271.4	39.96828 (21120401)	39.42171 (21120401)	38.78748 (21120323)	

38.21870 (19013024) 37.52361 (21122221)
▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
*** AERMET - VERSION 22112 *** ***
*** 15:18:33

PAGE 73
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)
473928.49	

3674086.2	49.84727 (21120907)
3674045.5	51.44990 (19011918)
3674004.7	49.89098 (20011819)
3673964.0	48.79391 (19011802)
3673923.3	49.48280 (19120807)
3673882.5	48.42202 (19020821)
3673841.8	46.67524 (21122107)
3673801.0	45.69269 (20013118)
3673760.3	44.33555 (20123018)
3673719.6	42.91411 (19020819)
3673678.8	42.75009 (21020308)
3673638.1	41.63711 (20022319)
3673597.3	41.98164 (20022320)
3673556.6	40.79480 (20120517)
3673515.9	40.69460 (20012119)
3673475.1	41.37095 (21010917)
3673434.4	40.22481 (21010917)
3673393.6	38.01028 (21122219)
3673352.9	37.83013 (20090522)

3673312.2 | 37.39223 (21120221)
 3673271.4 | 37.14184 (19122017)
 *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 ***
 *** 15:18:33

PAGE 74
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:
 GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
 **
 Y-COORD | X-COORD (METERS)
 (METERS) | 473464.30 473489.30 473514.30
 473539.30 473564.30
 - - - - -
 - - - - -
 3674946.4 | 33.98566 (21020720) 34.00811 (21020221) 33.96137 (21020221)
 33.75793 (21021920) 33.29030 (21021920)
 3674921.4 | 32.03541 (21020720) 30.46259 (21020221) 30.42501 (21021219)
 31.60936 (20012420) 30.87122 (19011619)
 3674896.4 | 33.69095 (21020221) 31.71542 (21021219) 28.87707 (19011619)
 28.96374 (19011619) 28.38358 (19011619)
 3674871.4 | 34.11701 (21020221) 31.82723 (21021219) 30.00619 (19011619)
 29.58477 (19011619) 28.97648 (20012502)
 3674846.4 | 33.90930 (21020221) 32.18357 (20012420) 30.17093 (19011619)
 28.21913 (19011619) 28.06393 (21120119)
 3674821.4 | 32.30900 (21021219) 31.25776 (19011619) 29.29224 (19011619)
 27.94974 (21120119) 28.74859 (21120119)
 3674796.4 | 29.97669 (21122303) 29.16261 (19011619) 28.79410 (20011218)
 29.35561 (21120119) 30.07944 (21120119)
 3674771.4 | 30.65442 (21122303) 29.68926 (20011218) 29.81476 (21120119)
 30.78654 (21120119) 31.36204 (21122018)
 3674746.4 | 32.21917 (19011619) 30.46860 (20011218) 30.87105 (21120119)

31.12282 (21120119)	30.97864 (21122018)		
3674721.4 31.87311 (20011218)	31.66449 (21120119)	31.71350 (21120119)	
32.10978 (21120119)	33.48432 (21122018)		
3674696.4 32.58688 (21120119)	32.70844 (21120119)	32.45129 (21120119)	
32.59666 (21122018)	34.15417 (21122018)		
3674671.4 34.60960 (21120119)	33.74961 (21120119)	32.94447 (21120119)	
32.51744 (21122018)	34.39969 (19121320)		
3674646.4 36.39930 (21120119)	34.50858 (21120119)	33.21030 (21120119)	
33.41281 (19121320)	35.61748 (19121320)		
3674621.4 37.26659 (21120119)	34.69451 (21120119)	33.70608 (19121320)	
34.46486 (19121320)	36.47693 (19121320)		
3674596.4 37.63703 (21120119)	34.59310 (21120119)	34.53518 (19121320)	
35.04516 (19121320)	38.95175 (19120719)		
3674571.4 37.75079 (21120119)	35.20509 (19121320)	35.00572 (19121320)	
36.55917 (19122422)	40.56531 (19120719)		
3674546.4 37.84626 (19121320)	35.79345 (19121320)	36.26533 (19122422)	
37.98930 (19122422)	41.55606 (19120719)		
3674521.4 38.58660 (19121320)	37.10528 (19122422)	37.50208 (19122422)	
39.49747 (19013019)	43.54766 (20022219)		
3674496.4 39.28407 (19122422)	38.94987 (19122422)	38.96485 (19013019)	
41.06723 (19013019)	45.50812 (20022219)		
3674471.4 39.99793 (20122805)	40.05002 (19013019)	39.70872 (19013019)	
42.10433 (19013019)	46.92658 (20101319)		
3674446.4 41.17141 (19013019)	41.03561 (19013019)	39.87515 (19013019)	
41.52171 (19013019)	47.04588 (19090301)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (METERS)				X-COORD (METERS)
	473589.30		473614.30	473639.30
473664.30		473689.30		

3674946.4	31.87617 (20012502)		28.10694 (20012502)	26.24024 (21120119)
29.01146 (20110517)	31.01047 (20110517)			
3674921.4	27.88435 (20012502)		26.28167 (21120119)	27.10061 (21120119)
28.92683 (21122018)	31.11159 (21122018)			
3674896.4	27.58513 (19091603)		27.79445 (21120119)	28.43529 (21122018)
30.23373 (21122018)	31.56503 (21122018)			
3674871.4	28.75384 (20012502)		29.10794 (21120119)	30.45492 (21122018)
31.70942 (21122018)	32.55775 (21122018)			
3674846.4	28.68114 (21120119)		29.38567 (21122018)	30.25494 (21122018)
31.41767 (21122018)	32.89258 (21122018)			
3674821.4	29.21873 (21120119)		29.54074 (21122018)	30.41240 (21122018)
32.94701 (21122018)	36.40465 (19011803)			
3674796.4	30.59762 (21122018)		30.45003 (21122018)	31.66353 (21122018)
36.52588 (19011803)	38.91927 (19011803)			
3674771.4	31.61961 (21122018)		31.20149 (21122018)	32.52736 (19121320)
38.55630 (19011803)	39.90178 (19011803)			
3674746.4	31.85530 (21122018)		31.93748 (19121320)	33.51579 (19121320)
40.01065 (19011803)	40.27403 (19011803)			
3674721.4	33.24933 (21122018)		33.24324 (19121320)	34.41224 (19121320)
40.73878 (19011803)	40.95690 (19021218)			
3674696.4	35.23481 (19121320)		34.32072 (19121320)	36.42763 (19120719)
41.17865 (19120719)	42.56709 (19021218)			
3674671.4	36.77223 (19121320)		36.02693 (19120719)	38.22944 (19120719)
42.73716 (19021218)	43.33661 (19021218)			
3674646.4	38.24742 (19120719)		38.08327 (19120719)	39.39502 (19120719)
43.57390 (19021218)	43.30983 (19120808)			
3674621.4	40.62423 (19120719)		39.85507 (19120719)	40.69822 (19120808)
44.58774 (19120808)	43.30021 (19120808)			
3674596.4	42.73913 (19120719)		40.81864 (19120808)	42.26763 (19120808)
44.72559 (19120808)	43.57763 (21092424)			
3674571.4	43.96071 (19120719)		42.74868 (19120808)	42.60635 (19120808)
44.15056 (20101319)	44.03950 (21092424)			
3674546.4	45.86830 (19120808)		43.82623 (19120808)	42.95107 (20101319)
43.05696 (20042920)	44.26885 (21101319)			
3674521.4	47.15615 (19120808)		44.57907 (20101319)	43.76836 (20042920)
43.78919 (19090301)	43.84110 (19090504)			
3674496.4	48.06892 (20101319)		45.89526 (20042920)	46.44430 (19090301)
45.58147 (19022621)	45.95798 (19022621)			
3674471.4	48.92203 (20042920)		48.12889 (19090301)	47.94752 (19022621)
48.35345 (19022621)	47.66091 (19022621)			
3674446.4	51.21100 (19090301)		50.74441 (19022621)	51.10830 (19022621)
50.14638 (19022621)	48.00429 (21120818)			

*** AERMET - VERSION 22112 ***
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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): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)			X-COORD (METERS)
473789.30	473714.30	473739.30	473764.30

3674946.4	31.47511 (21122018)	31.46489 (21122018)	31.67348 (19011803)
33.04357 (19011803)	33.19086 (19011803)		
3674921.4	31.43727 (21122018)	31.53644 (21122018)	33.01051 (19011803)
33.99466 (19011803)	33.48467 (19011803)		
3674896.4	31.87139 (21122018)	32.71558 (19011803)	33.87232 (19011803)
34.06272 (19011803)	33.30494 (19011803)		
3674871.4	32.70965 (19011803)	34.11696 (19011803)	34.76378 (19011803)
34.34870 (19011803)	34.35086 (19021218)		
3674846.4	35.51599 (19011803)	36.42828 (19011803)	35.92063 (19011803)
35.45485 (19021218)	35.94912 (19021218)		
3674821.4	37.54640 (19011803)	37.33645 (19011803)	36.30896 (19021218)
36.94927 (19021218)	36.64300 (19021218)		
3674796.4	38.58876 (19011803)	37.25268 (19011803)	37.78615 (19021218)
37.66832 (19021218)	36.59684 (19021218)		
3674771.4	38.65330 (19011803)	38.70929 (19021218)	38.65429 (19021218)
37.78004 (19021218)	37.23164 (21020206)		
3674746.4	39.75969 (19021218)	39.91787 (19021218)	39.30300 (19021218)
38.34491 (21020206)	37.60225 (21020206)		
3674721.4	41.08538 (19021218)	40.37171 (19021218)	39.78260 (21020206)
38.91337 (21020206)	38.01964 (21092424)		
3674696.4	41.65396 (19021218)	40.34914 (19120808)	40.45622 (21020206)

39.26178 (21092424)	38.82989 (20102322)		
3674671.4 41.73451 (19120808)	40.77719 (21020206)	40.58778 (21092424)	
40.13952 (20102322)	39.67688 (20102322)		
3674646.4 41.55339 (19120808)	41.42425 (21092424)	41.55809 (20102322)	
41.05421 (20102322)	39.53889 (20102322)		
3674621.4 42.08413 (21092424)	41.76805 (21092424)	41.74622 (20102322)	
40.90039 (21101319)	40.45826 (21122508)		
3674596.4 42.44938 (21092424)	42.22770 (21101319)	41.44543 (19090504)	
41.76521 (21122508)	41.55658 (19022621)		
3674571.4 42.67068 (21101319)	41.81322 (19090504)	41.96752 (19022621)	
42.00769 (19022621)	41.62941 (19022621)		
3674546.4 42.68682 (19090504)	42.00096 (19022621)	42.20034 (19022621)	
42.24416 (19022621)	41.53620 (21120818)		
3674521.4 43.69116 (19022621)	42.76436 (19022621)	41.90149 (21120818)	
42.80655 (21120818)	41.12592 (21010419)		
3674496.4 44.38958 (19022621)	41.77210 (21120818)	42.23130 (21120818)	
42.17405 (20012023)	38.89395 (20012023)		
3674471.4 45.84258 (21120818)	43.52276 (21120818)	41.01603 (20012023)	
40.79289 (20012023)	38.56921 (20012023)		
3674446.4 43.39426 (20012023)	43.43274 (20012023)	40.93218 (20012023)	
39.22496 (20012023)	37.77564 (20121719)		

*** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 ***
 *** 15:18:33

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	473839.30	473864.30	473889.30
473914.30	473939.30		

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- - - - -
3674946.4 |      32.58106 (19011803)      31.69926 (19021218)      32.31989 (19021218)
      32.20291 (19021218)      31.35987 (19021218)
3674921.4 |      32.30432 (19011803)      33.12397 (19021218)      33.10842 (19021218)
      32.34139 (19021218)      31.65520 (21020206)
3674896.4 |      33.68546 (19021218)      33.94548 (19021218)      33.33215 (19021218)
      32.57940 (21020206)      31.96276 (21020206)
3674871.4 |      34.79172 (19021218)      34.35725 (19021218)      33.40539 (21020206)
      33.17076 (21020206)      31.61157 (21110401)
3674846.4 |      35.50881 (19021218)      34.43193 (21020206)      34.08745 (21020206)
      33.18410 (21020206)      32.18603 (21092424)
3674821.4 |      35.45337 (21020206)      35.26915 (21020206)      34.12674 (21020206)
      33.66659 (21092424)      32.31000 (20102322)
3674796.4 |      36.21752 (21020206)      35.28226 (21020206)      34.58974 (21092424)
      34.20960 (20102322)      32.64470 (20102322)
3674771.4 |      36.44176 (21020206)      35.65295 (21092424)      35.08052 (20102322)
      34.71382 (20102322)      32.87658 (21101319)
3674746.4 |      36.83514 (21092424)      36.28244 (20102322)      35.56100 (20102322)
      34.67722 (21101319)      34.02600 (20100319)
3674721.4 |      37.59626 (20102322)      36.86412 (20102322)      35.66184 (21101319)
      35.57252 (21122508)      34.88480 (21122508)
3674696.4 |      38.39629 (20102322)      36.91137 (21101319)      36.67869 (21122508)
      37.58179 (21122508)      35.18704 (19022621)
3674671.4 |      38.20006 (21101319)      38.22323 (21122508)      38.58667 (21122508)
      38.66253 (21122508)      35.05359 (19022621)
3674646.4 |      39.60565 (21122508)      39.63777 (21122508)      39.35909 (21122508)
      38.67421 (21122508)      35.30298 (21120818)
3674621.4 |      40.72123 (21122508)      40.39194 (21122508)      39.23726 (21122508)
      38.83385 (21010419)      34.97325 (21010419)
3674596.4 |      40.95483 (19022621)      40.09329 (19022621)      40.04589 (21010419)
      39.33588 (21010419)      35.15256 (20012023)
3674571.4 |      40.98713 (21120818)      40.81153 (21010419)      39.49915 (21010419)
      37.13614 (20012023)      33.33997 (20012023)
3674546.4 |      41.39894 (21010419)      39.26416 (20012023)      37.85255 (20012023)
      33.10679 (20012023)      31.03945 (20121719)
3674521.4 |      41.03744 (20012023)      35.83142 (20012023)      33.38299 (20012023)
      32.40907 (20121719)      31.94073 (20121719)
3674496.4 |      37.25416 (20012023)      35.03136 (20012023)      31.75408 (20121719)
      31.93043 (20121719)      31.31973 (20121719)
3674471.4 |      35.26236 (20121719)      34.61475 (20121719)      33.15219 (20121719)
      32.19896 (20121719)      30.81864 (20121719)
3674446.4 |      35.87930 (20121719)      34.83374 (20121719)      33.22606 (20121719)
      29.63028 (20121719)      27.60358 (21091123)

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^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***
*** 15:18:33

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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): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)

3674946.4	30.41507 (21020206)
3674921.4	30.50801 (21020206)
3674896.4	30.34749 (21092424)
3674871.4	31.06037 (21092424)
3674846.4	30.73257 (21092424)
3674821.4	30.36787 (21101319)
3674796.4	29.94199 (19090504)
3674771.4	30.84923 (19090504)
3674746.4	31.73895 (19022621)
3674721.4	31.17232 (19022621)
3674696.4	30.09985 (21120818)
3674671.4	29.85289 (21120818)
3674646.4	29.93100 (21121620)
3674621.4	31.22768 (20012023)
3674596.4	30.88033 (20012023)
3674571.4	30.03955 (20012023)
3674546.4	30.77096 (20121719)
3674521.4	31.61774 (20121719)
3674496.4	31.44892 (20121719)
3674471.4	27.14302 (20121719)
3674446.4	25.70585 (21091123)

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 ***
*** 15:18:33

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
	472425.37	472475.37	472525.37
472575.37	472625.37		

 3673501.5 | 66.20359 (21011520) 67.22927 (19121818) 70.94243 (20100907)
 73.67968 (20100907) 72.66889 (21011408)
 3673474.3 | 61.23264 (19121818) 63.58092 (19010823) 69.20291 (20100907)
 68.89969 (19101207) 67.74358 (19121204)
 3673447.0 | 59.09572 (19010823) 64.14110 (20100907) 65.00088 (20100907)
 64.68466 (20022020) 68.17121 (19010908)
 3673419.8 | 59.20275 (20100907) 62.39461 (20100907) 62.67616 (19101207)
 60.95774 (19121204) 66.15485 (19010908)
 3673392.6 | 61.66619 (20100907) 59.76249 (19101207) 58.72325 (20022020)
 61.22425 (19010908) 60.76734 (19010908)
 3673365.4 | 58.55976 (20100907) 58.30181 (19101207) 56.23256 (19121204)
 60.85174 (19010908) 56.44741 (20070506)
 3673338.2 | 55.82903 (19101207) 54.93541 (20022020) 56.52395 (19010908)
 57.24226 (19010908) 53.62494 (19020719)
 3673310.9 | 53.34447 (21011408) 52.39914 (19121204) 56.59115 (19010908)
 52.07163 (20070506) 51.64056 (19012907)
 3673283.7 | 51.08084 (20022020) 53.10476 (19010908) 54.26639 (19010908)
 50.03883 (19020719) 50.15068 (21032607)
 3673256.5 | 48.68414 (19121204) 52.46372 (19010908) 49.10740 (19010908)
 47.45685 (21120520) 48.23284 (21032607)
 3673229.3 | 48.79194 (19010908) 49.63293 (19010908) 45.52135 (20070506)
 45.52305 (19012907) 45.57969 (19120223)
 3673202.1 | 49.09014 (19010908) 47.45305 (19010908) 44.60443 (19020719)
 45.06948 (21032607) 44.44743 (20122524)

3673174.8	48.01423 (19010908)	43.72909 (20070506)	43.26618 (19012907)
43.80983 (21032607)	43.04509 (19092122)		
3673147.6	45.78301 (19010908)	42.42142 (19020719)	42.28673 (19022320)
42.08288 (19120223)	41.26891 (21011821)		
3673120.4	43.06180 (19010908)	42.49980 (19122019)	42.54737 (21032607)
41.27103 (19120223)	41.22789 (20011508)		
3673093.2	42.79135 (19020719)	43.65735 (19012907)	43.58517 (21032607)
41.56527 (19092122)	44.77160 (20011508)		
3673066.0	42.61657 (19020719)	44.05808 (19022320)	44.80709 (19120223)
44.01015 (21011821)	47.64038 (20011508)		
3673038.7	41.48594 (21120520)	43.83813 (21032607)	44.44758 (19022706)
44.70462 (20013020)	46.03108 (20011508)		
3673011.5	41.91641 (19012907)	42.77819 (21032607)	43.13394 (21011607)
43.26413 (19012903)	43.56393 (20022703)		
3672984.3	41.10130 (21011418)	40.50441 (19021120)	41.11092 (21122019)
41.69898 (20011508)	42.05360 (20012703)		
3672957.1	32.96303 (21020102)	35.43166 (19021307)	37.93077 (20021822)
40.07215 (20022804)	41.25245 (20012703)		

*** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)	472675.37	472725.37
472825.37	472875.37	472775.37
- - - - -		
- - - - -		

3673501.5	76.53018 (19010908)	72.38303 (19020719)	71.89647 (21032607)

70.07542 (20011508)	67.65073 (19012908)	
3673474.3 73.05930 (19010908)	68.05953 (19012907)	66.60902 (19120223)
66.32077 (20011508)	64.42670 (19012908)	
3673447.0 66.72924 (19010908)	65.09357 (21032607)	62.79525 (19092122)
62.34274 (20011508)	61.19843 (19012908)	
3673419.8 62.22303 (19020719)	61.86040 (21032607)	60.48594 (20011508)
58.82546 (19012908)	58.06575 (19012908)	
3673392.6 58.73102 (19012907)	57.95349 (19120223)	58.46435 (20011508)
57.18991 (19012908)	54.83026 (19012908)	
3673365.4 56.62869 (21032607)	55.18546 (19092122)	55.94392 (20011508)
55.44848 (19012908)	51.74926 (20100121)	
3673338.2 54.44529 (21032607)	52.53572 (21011821)	53.26560 (20011508)
53.51922 (19012908)	50.42216 (21021003)	
3673310.9 51.51171 (19120223)	51.54207 (20011508)	50.55557 (20030807)
51.45666 (19012908)	51.30729 (21021003)	
3673283.7 49.18629 (19092122)	50.59806 (20011508)	48.62628 (19012908)
50.40102 (19012908)	53.92840 (21021003)	
3673256.5 46.98962 (21011821)	48.91195 (20011508)	48.46159 (19012908)
52.18539 (19012908)	54.71811 (20012002)	
3673229.3 44.84368 (21011821)	46.84297 (20011508)	50.29483 (19012908)
53.57155 (19012908)	53.76392 (21122608)	
3673202.1 45.09438 (20011508)	45.12950 (20030807)	52.87134 (19012908)
53.16095 (19122404)	53.13260 (21122608)	
3673174.8 44.46352 (20011508)	45.68068 (20030807)	55.40775 (19012908)
52.10101 (20012702)	51.56819 (21122608)	
3673147.6 44.31294 (20011508)	48.88321 (19012908)	53.24738 (19012908)
50.95038 (20012702)	49.43629 (21010519)	
3673120.4 46.29502 (20011508)	51.71407 (19012908)	50.81393 (19012908)
49.40862 (20012702)	47.53060 (21010519)	
3673093.2 47.23184 (20011508)	50.74860 (19012908)	48.52940 (21011808)
48.21562 (21122608)	46.49707 (20021007)	
3673066.0 46.76750 (21021004)	49.26731 (19012908)	46.96347 (19011920)
47.01190 (21122608)	45.65730 (20020720)	
3673038.7 45.30593 (19012908)	47.49408 (19012908)	45.57094 (19122404)
45.84996 (21122608)	44.68068 (20020720)	
3673011.5 44.80114 (19012908)	45.83030 (19012908)	44.36351 (19122404)
44.77883 (21122608)	43.44624 (20020720)	
3672984.3 43.89454 (19012908)	44.37539 (19012908)	42.97819 (20012702)
43.46021 (21122608)	41.87604 (20020720)	
3672957.1 43.09629 (19012908)	42.69509 (19012908)	41.99773 (20012702)
42.20187 (21122608)	40.88480 (19120204)	

^ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 ***
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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): L0000001 , L0000002

, L0000003 , L0000004 , L0000005 ,

L0000006 , L0000007 , L0000008 , L0000009 , L0000010

, L0000011 , L0000012 , L0000013 ,

L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,

L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)				X-COORD (METERS)
473075.37	472925.37		472975.37	473025.37
	473125.37			

3673501.5	62.46408 (21021003)	60.53146 (20050806)		57.95542 (21020419)
57.46689 (20100707)	54.46958 (19090223)			
3673474.3	59.71043 (21021003)	58.21590 (20050806)		55.87074 (19090604)
56.49490 (20100707)	53.94489 (19022720)			
3673447.0	57.02491 (21021003)	56.00409 (20050806)		53.99322 (19090604)
55.05645 (20100707)	54.67588 (19022720)			
3673419.8	54.65883 (21010519)	54.59023 (20050806)		54.09212 (19090604)
54.20330 (20100707)	53.67104 (19022720)			
3673392.6	52.54840 (21010519)	54.12288 (20050806)		54.20949 (19090604)
54.41245 (20100707)	51.98563 (19022720)			
3673365.4	51.77682 (19120119)	55.18503 (20050806)		53.61214 (19090604)
53.20787 (20100707)	50.37310 (19022720)			
3673338.2	54.24059 (19120119)	55.37979 (20050806)		52.72838 (19090604)
52.25505 (20100707)	48.41901 (19022720)			
3673310.9	55.18323 (21033123)	54.65052 (20050806)		51.75720 (19090604)
50.14190 (20100707)	46.50886 (19121219)			
3673283.7	54.69439 (20020720)	53.55412 (20050806)		50.02585 (19090604)
47.78418 (20100707)	44.82459 (19121219)			
3673256.5	54.00985 (20050806)	52.25160 (20050806)		47.30291 (19090604)
46.16501 (20100707)	43.44361 (19121219)			
3673229.3	53.01964 (20050806)	50.56506 (20012820)		45.05753 (19090604)
44.97630 (20100707)	42.28021 (21013121)			
3673202.1	51.35267 (20050806)	48.04858 (20012820)		45.09614 (19090604)
44.04718 (20100707)	41.06202 (21013121)			
3673174.8	49.11827 (20050806)	47.04972 (20012820)		44.25894 (19090604)
43.14849 (20100707)	40.36957 (21013121)			
3673147.6	47.92899 (20050806)	46.34396 (20012820)		43.28526 (19090604)
42.58156 (20100707)	39.95094 (21013121)			

3673120.4	47.28540 (20050806)	45.11347 (20012820)	42.53644 (19010720)
41.90164 (20100707)	39.66909 (21013121)		
3673093.2	46.63236 (20050806)	43.76422 (20012820)	41.50619 (19010720)
41.06252 (20100707)	39.27641 (21013121)		
3673066.0	45.67334 (20050806)	43.05635 (20012820)	41.11153 (19010720)
40.83342 (20100707)	38.99893 (21013121)		
3673038.7	44.59184 (20050806)	42.49706 (20012820)	40.87373 (19010720)
40.75809 (20100707)	38.78258 (21013121)		
3673011.5	43.37167 (20050806)	41.40478 (20012820)	39.90464 (19010720)
39.92181 (20100707)	38.44714 (20100707)		
3672984.3	41.85783 (20050806)	40.17117 (20012820)	38.57089 (19010720)
38.94623 (20100707)	38.11265 (20100707)		
3672957.1	41.05984 (20050806)	39.39833 (20012820)	37.91661 (19010720)
38.17931 (20100707)	38.09874 (20100707)		

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*** AERMET - VERSION 22112 ***

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD		X-COORD (METERS)
(METERS)		
473325.37	473175.37	473225.37
	473375.37	473275.37

3673501.5	57.96770 (20120708)	61.63815 (20120708)	55.97491 (20071206)
53.70797 (19090305)	53.11573 (20122019)		
3673474.3	56.84924 (20120708)	56.78003 (20120708)	52.16018 (20071206)
48.88609 (21091020)	48.67206 (20022018)		
3673447.0	52.48660 (21011218)	52.07994 (20120708)	50.38928 (20071206)

47.38131 (21091020)	47.13109 (19090305)	
3673419.8 49.11552 (20122018)	50.42971 (20120708)	49.05290 (20120708)
45.81297 (20021519)	45.19964 (19090305)	
3673392.6 47.62102 (20122018)	48.18351 (20120708)	48.17780 (20120708)
45.71671 (20071206)	43.98175 (21091020)	
3673365.4 46.31561 (20122018)	45.99253 (20120708)	47.23418 (20120708)
45.35757 (20071206)	42.84779 (20021519)	
3673338.2 45.21534 (20011019)	44.56020 (19050206)	46.02623 (20120708)
44.58482 (20071206)	41.92160 (20050422)	
3673310.9 44.41016 (20011019)	43.83804 (19050206)	45.18332 (20120708)
44.63913 (20120708)	43.06086 (20071206)	
3673283.7 43.65968 (19090223)	43.18902 (21011218)	44.12779 (20120708)
45.27848 (20120708)	44.27377 (20071206)	
3673256.5 42.92330 (19022720)	42.31440 (20122018)	42.17413 (20120708)
44.63517 (20120708)	44.00025 (20071206)	
3673229.3 41.86013 (19022720)	41.29797 (20122018)	40.72195 (19050206)
43.63015 (20120708)	43.17332 (20071206)	
3673202.1 40.73216 (19022720)	40.78906 (20122018)	41.29923 (19050206)
44.23978 (20120708)	44.64031 (20120708)	
3673174.8 40.04811 (19022720)	39.90626 (21120201)	40.88247 (19050206)
42.73067 (20120708)	44.50172 (20120708)	
3673147.6 39.39269 (19022720)	39.56643 (20011019)	39.95857 (21011218)
40.69596 (20120708)	43.66169 (20120708)	
3673120.4 39.16530 (19022720)	39.64025 (20011019)	40.11468 (21011218)
39.77181 (19120224)	43.37247 (20120708)	
3673093.2 38.43663 (19121219)	39.04015 (20011019)	39.64880 (20122018)
39.51522 (19050206)	42.28082 (20120708)	
3673066.0 38.38354 (19121219)	38.81380 (21120905)	39.40557 (20122018)
39.46869 (19050206)	41.00214 (20120708)	
3673038.7 38.65319 (19121219)	38.83127 (21120905)	39.25398 (20122018)
39.39953 (19050206)	39.57826 (20120708)	
3673011.5 38.34340 (19121219)	38.43455 (21120905)	38.77132 (21120201)
38.82425 (19050206)	38.53960 (20122421)	
3672984.3 37.76207 (19121219)	38.56252 (19121918)	38.32641 (21120201)
38.30304 (19121019)	37.99555 (20022824)	
3672957.1 37.42954 (19121219)	37.83073 (19121918)	37.34991 (19022624)
37.59327 (20122018)	37.23847 (20021920)	

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010

```

, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** NETWORK ID: UCART3 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)
473425.37	

3673501.5	52.79062 (19022520)
3673474.3	48.62982 (20122019)
3673447.0	47.59384 (20122019)
3673419.8	45.94979 (20022018)
3673392.6	44.40201 (19090305)
3673365.4	43.27317 (19090305)
3673338.2	42.01119 (21091020)
3673310.9	41.89422 (21091020)
3673283.7	42.13918 (20021519)
3673256.5	41.48055 (20050422)
3673229.3	41.71821 (20071206)
3673202.1	43.13553 (20071206)
3673174.8	43.03969 (20071206)
3673147.6	42.59469 (20071206)
3673120.4	42.23053 (20120708)
3673093.2	42.32525 (20120708)
3673066.0	42.04404 (20120708)
3673038.7	41.38932 (20120708)
3673011.5	40.40007 (20120708)
3672984.3	39.15477 (20120708)
3672957.1	37.69358 (20120708)

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***

*** 15:18:33

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,

```

, L0000011      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000012      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

```

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (METERS)			X-COORD (METERS)
471590.03	471446.84	471494.57	471542.30
	471637.76		

3673517.5	25.73532 (19122122)	26.62511 (20120218)	28.07105 (20120218)
29.06529 (20120218)	30.67654 (19022321)		
3673489.7	26.56439 (20120218)	27.90876 (20120218)	28.33357 (19022321)
29.21040 (21122101)	30.77929 (21122101)		
3673462.0	26.18098 (19022321)	27.49014 (21122101)	28.72295 (21122101)
30.07990 (20013123)	31.55118 (20013123)		
3673434.2	26.25703 (21122101)	27.45857 (21122101)	28.72726 (20013123)
30.15205 (20013123)	31.77672 (19121224)		
3673406.4	26.13964 (20013123)	27.50541 (20013123)	28.51579 (19021502)
30.35126 (20022420)	32.00952 (20022420)		
3673378.7	25.68958 (21012107)	27.43365 (20022420)	28.54214 (20022420)
30.43229 (20022420)	31.78126 (19120301)		
3673350.9	24.39599 (20022420)	27.30070 (20022420)	28.20339 (20020203)
30.36755 (19120301)	31.43765 (20010408)		
3673323.1	22.74576 (20010320)	27.09644 (20020203)	27.87416 (20012601)
30.29094 (20010408)	31.65974 (20010408)		
3673295.4	21.71240 (20122021)	26.68825 (20012601)	27.84573 (20010408)
29.35091 (20010408)	31.02555 (20121519)		
3673267.6	19.70407 (20122021)	26.29821 (20010408)	27.37822 (20121519)
28.38167 (20121519)	30.02506 (21011519)		
3673239.9	18.95528 (20022521)	24.68617 (20013021)	27.16973 (21011519)
28.04939 (21011519)	28.49901 (20020120)		
3673212.1	18.73714 (20022521)	21.11066 (19012619)	26.66240 (20011908)
27.56108 (20020120)	28.03547 (20020120)		
3673184.4	18.69422 (20120219)	18.09736 (20022718)	25.93392 (20020120)
27.03400 (20020120)	27.12165 (19021305)		
3673156.6	18.35735 (20022719)	17.88398 (20022718)	25.43244 (20020120)
25.89260 (19021305)	25.36277 (21010320)		
3673128.8	18.17379 (20022719)	16.92674 (20022718)	24.05582 (20122022)
24.94439 (21010320)	24.55601 (20021524)		
3673101.1	17.96146 (20022719)	15.62314 (20010619)	21.76232 (19021506)

24.22060 (20021524)	24.42815 (21011620)		
3673073.3 17.92653 (20120501)	14.34521 (20010619)	19.11182 (20010221)	
23.61820 (21011620)	23.88021 (19120705)		
3673045.5 17.97139 (20010221)	13.03363 (21011421)	16.43236 (21011421)	
22.47288 (19120705)	22.80789 (21011622)		
3673017.8 18.19624 (20010221)	11.65648 (21011421)	13.30062 (21011421)	
19.88835 (19120705)	18.96477 (19012623)		
3672990.0 18.71938 (19011923)	11.09169 (21011421)	10.86113 (21011603)	
12.59570 (21011603)	11.87080 (19120704)		
3672962.3 18.00837 (19011923)	10.43812 (21011603)	10.65810 (21011603)	
11.01217 (19120704)	11.33618 (19120704)		

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 *** AERMET - VERSION 22112 ***
 *** 15:18:33

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	471685.49	471733.22	471780.95
471828.68	471876.41		

- - - - -
 - - - - -

3673517.5 32.40141 (21120601)	34.25499 (21122101)	35.90998 (20013123)
37.89377 (20013123)	39.63607 (19121224)	
3673489.7 32.01932 (21122101)	33.94493 (20013123)	35.79271 (19121224)
37.88293 (21011804)	40.00359 (21011804)	
3673462.0 32.13993 (19021502)	33.88088 (20022420)	36.52423 (21011804)
38.00530 (21011804)	39.40757 (19120301)	
3673434.2 33.29972 (20022420)	34.75743 (21011804)	36.26742 (19120301)
37.34336 (19120301)	39.27091 (20010408)	

3673406.4	33.24577 (19120301)	34.52734 (19120301)	35.75252 (20010408)
37.70801 (20010408)	38.83861 (20010408)		
3673378.7	32.67301 (19120301)	34.50155 (20010408)	35.98110 (20010408)
37.01804 (21011519)	39.15173 (21011519)		
3673350.9	33.11424 (20010408)	34.17957 (20010408)	35.50489 (21011519)
37.16991 (21011519)	38.13602 (19122118)		
3673323.1	32.42569 (20121519)	33.96369 (21011519)	35.14709 (21011519)
36.10751 (20021323)	37.70441 (21021005)		
3673295.4	32.58016 (21011519)	33.36955 (21011519)	34.23328 (21021005)
35.72805 (21021005)	36.20187 (19022721)		
3673267.6	31.25519 (20021323)	32.72859 (21021005)	33.40872 (20020120)
33.74594 (21010320)	34.39160 (21010320)		
3673239.9	28.81010 (20020120)	31.66774 (20020120)	32.65835 (21010320)
33.13714 (21011322)	34.37520 (21011620)		
3673212.1	27.34676 (20122022)	30.68504 (21010320)	32.03225 (21011322)
33.40058 (21011620)	33.47079 (21011620)		
3673184.4	26.14209 (19021506)	28.78270 (20021524)	31.31354 (21011620)
31.94620 (21011620)	30.78930 (21011622)		
3673156.6	24.57546 (19011102)	26.06917 (21011620)	29.79125 (21011620)
30.13064 (21011622)	29.77909 (19120717)		
3673128.8	22.59899 (19011923)	22.54483 (19011923)	27.42298 (21011622)
29.25597 (19120717)	27.23603 (20011522)		
3673101.1	20.28550 (19011923)	19.46923 (19120323)	22.86372 (19012623)
26.27195 (19120717)	22.77382 (21121723)		
3673073.3	18.40187 (19121003)	17.16613 (20120220)	17.94892 (19011924)
20.44509 (19011924)	17.34553 (21011723)		
3673045.5	16.60321 (20120220)	14.31583 (19120704)	14.13183 (21011723)
14.37206 (21011723)	14.11993 (19120706)		
3673017.8	13.83048 (19120704)	12.61125 (20120801)	13.05596 (20120801)
13.32432 (20120801)	13.84296 (19120706)		
3672990.0	11.86085 (19120704)	12.36509 (20120801)	12.70955 (20120801)
13.10859 (19120706)	13.59277 (19012503)		
3672962.3	11.73561 (20120801)	12.09142 (20120801)	12.48037 (19120706)
12.89292 (19012503)	13.33816 (19012503)		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,

L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	471924.14	471971.87	472019.60
472067.33	472115.06		

3673517.5	41.83680 (21011804)	43.70256 (21011804)	45.28599 (19022703)
46.59140 (20010408)	49.43460 (20010408)		
3673489.7	41.35099 (19120301)	42.70266 (19120301)	45.11831 (20010408)
46.83871 (20010408)	49.22435 (21011519)		
3673462.0	40.66196 (20010408)	43.11817 (20010408)	44.50146 (21011519)
47.20141 (21011519)	48.08680 (19122118)		
3673434.2	40.99438 (20010408)	42.83805 (21011519)	44.96608 (21011519)
46.20849 (19122118)	47.39263 (21021005)		
3673406.4	41.01419 (21011519)	42.57421 (21011519)	43.84658 (21021005)
45.60611 (21021005)	47.53859 (19121301)		
3673378.7	40.22048 (21011519)	41.75770 (21021005)	42.97370 (21021005)
45.02960 (19121301)	46.83374 (21011322)		
3673350.9	39.73421 (21021005)	40.50001 (19022721)	42.13460 (21011322)
44.31243 (21011322)	45.87095 (19120122)		
3673323.1	38.45495 (19022721)	39.41827 (21011322)	41.45660 (21011322)
43.13508 (21011620)	45.27790 (19012823)		
3673295.4	36.77763 (21011322)	38.92276 (21011620)	40.69858 (21011620)
42.67500 (19012823)	43.92125 (20010321)		
3673267.6	36.34750 (21011620)	38.16027 (21011620)	40.26794 (19012823)
39.98906 (20010321)	42.21434 (20122422)		
3673239.9	35.37622 (21011620)	33.86474 (21011622)	35.84994 (19120717)
32.89412 (19120121)	35.41163 (19021221)		
3673212.1	32.65869 (21011622)	27.57777 (19012623)	28.92159 (19012402)
30.27465 (19012801)	34.28502 (21120521)		
3673184.4	28.63089 (19012623)	26.23429 (19011924)	26.60406 (21121721)
29.24700 (19012420)	33.56398 (20022623)		
3673156.6	25.72583 (19012402)	23.82383 (21121721)	24.98990 (21121721)
28.66483 (20120823)	37.97120 (19121203)		
3673128.8	23.84542 (21121723)	21.22605 (19120620)	23.70048 (20013007)
31.96987 (20020624)	39.88607 (20012022)		
3673101.1	19.99041 (19120620)	19.51332 (19012221)	23.65022 (21123020)
35.40310 (20010223)	38.80976 (21011320)		
3673073.3	15.70919 (21122921)	18.09507 (21123020)	22.93729 (20020122)
33.03142 (19120507)	38.39507 (21011602)		
3673045.5	14.68052 (19120706)	16.35871 (20020122)	18.88842 (20020122)

26.45818 (20020119)	33.80429 (21011722)		
3673017.8 14.33392 (19012503)	14.89424 (20013001)	16.57910 (21011706)	
21.54915 (20010104)	26.69454 (20022801)		
3672990.0 14.08704 (20013001)	14.59609 (21011706)	16.69754 (21011706)	
21.03399 (20122403)	24.11569 (20022806)		
3672962.3 13.85511 (20013001)	14.51036 (21011706)	18.67948 (20010104)	
23.30488 (20022801)	23.44083 (20022806)		

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*** 15:18:33

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD			X-COORD (METERS)
(METERS)	472162.79	472210.52	472258.25
472305.98	472353.71		

3673517.5 50.21440 (21011519)	53.33739 (21011519)	56.79147 (21021005)
61.58045 (19022721)	66.00165 (21011322)	
3673489.7 50.09974 (21011519)	52.18493 (19121202)	57.79162 (19121301)
60.27309 (21011322)	63.66838 (19120122)	
3673462.0 49.59142 (21021005)	51.86311 (19121301)	56.85127 (21011322)
58.58181 (21011620)	61.94523 (20012223)	
3673434.2 49.22186 (19121301)	52.55269 (20050706)	54.84862 (21011620)
57.65103 (20010321)	60.52010 (19011821)	
3673406.4 49.27067 (20050706)	51.43179 (19120122)	53.88317 (19012823)
56.16119 (19120523)	58.54891 (20022001)	
3673378.7 47.65017 (19120122)	51.08201 (19012823)	52.65260 (19120523)
54.62270 (19012724)	57.47996 (19010823)	

3673350.9	47.86590 (21012720)	49.56337 (19120523)	51.36744 (20122422)
53.63173 (19010824)	56.21476 (20100907)		
3673323.1	46.67962 (19120523)	48.46763 (20122422)	50.19467 (19010824)
52.70771 (20021321)	54.97101 (20100907)		
3673295.4	45.72632 (20122422)	47.03247 (19012724)	48.95470 (20010322)
51.85210 (20012022)	51.33396 (20100907)		
3673267.6	44.66141 (19012724)	46.05514 (20010322)	47.36116 (20021321)
50.45939 (21011320)	49.94796 (19101207)		
3673239.9	43.50928 (19010824)	45.06031 (20021321)	46.79925 (21011320)
48.87727 (21011602)	51.73040 (21011408)		
3673212.1	40.01846 (21021021)	44.43751 (20012022)	46.62263 (21011602)
49.16743 (21011408)	47.05063 (20022020)		
3673184.4	41.23318 (20010223)	43.79336 (21011320)	44.85324 (20011924)
45.67771 (21011408)	43.96256 (19121204)		
3673156.6	41.76650 (20012022)	42.14026 (20011924)	43.39004 (21011408)
42.90884 (19121204)	43.03120 (19010908)		
3673128.8	40.29091 (20022003)	42.00370 (21011408)	41.80745 (20022020)
41.49762 (19121204)	44.81044 (19010908)		
3673101.1	40.01780 (20011924)	41.51450 (21011408)	40.90755 (19121204)
41.42527 (19010908)	45.12517 (19010908)		
3673073.3	40.25410 (21011408)	39.64440 (20022020)	39.44229 (21121606)
42.44610 (19010908)	43.81181 (19010908)		
3673045.5	39.02911 (21011408)	39.24455 (21120305)	40.20756 (19010908)
42.74244 (19010908)	41.38793 (19010908)		
3673017.8	33.61770 (21020101)	38.07472 (20121620)	41.84265 (19010908)
42.77708 (19010908)	40.01228 (19012821)		
3672990.0	27.42486 (21013122)	32.45138 (21013122)	37.06541 (19010908)
39.40575 (19120824)	40.43200 (19020719)		
3672962.3	25.18721 (19010805)	26.59776 (19012423)	29.71945 (20010702)
34.13223 (19011024)	36.38646 (20121220)		

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 *** AERMET - VERSION 22112 ***
 *** 15:18:33

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART4 ; NETWORK TYPE:

GRIDCART ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD | X-COORD (METERS)
(METERS) | 472401.44

3673517.5 | 68.15838 (19120122)
3673489.7 | 65.63452 (21011520)
3673462.0 | 62.26556 (19121818)
3673434.2 | 60.58407 (20022001)
3673406.4 | 59.31930 (20022021)
3673378.7 | 60.23415 (20100907)
3673350.9 | 57.46858 (20100907)
3673323.1 | 54.09832 (19101207)
3673295.4 | 52.18597 (21011408)
3673267.6 | 50.07250 (20022020)
3673239.9 | 49.01774 (19121204)
3673212.1 | 46.53148 (19010908)
3673184.4 | 47.24569 (19010908)
3673156.6 | 47.11873 (19010908)
3673128.8 | 45.81394 (19010908)
3673101.1 | 43.59852 (19010908)
3673073.3 | 41.84987 (19010906)
3673045.5 | 41.20157 (19020719)
3673017.8 | 40.55017 (21120520)
3672990.0 | 40.95985 (19012907)
3672962.3 | 34.63909 (21011418)

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 ***
*** 15:18:33

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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): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
473153.71	3673931.17	302.14596	(19022619)	473149.56
3673875.16	278.61686	(19122616)		
473169.12	3673885.24	246.11658	(19122616)	473187.20
3673893.54	226.37429	(21010617)		
473173.57	3673940.36	269.08595	(19022619)	473190.16
3673947.47	241.32370	(19022619)		
473207.35	3673954.88	218.11851	(19022619)	473228.98
3673963.77	196.19795	(19022619)		
473203.50	3673901.84	211.70853	(21010617)	473221.28
3673910.73	194.85297	(20012818)		
473238.76	3673917.54	180.71288	(19120917)	473243.80
3673971.77	182.66792	(21010218)		
473255.66	3673926.43	169.59757	(20021820)	473262.17
3673977.40	166.88040	(20020819)		
473281.44	3673979.18	154.54604	(20020819)	473277.29
3673930.58	156.15868	(20021820)		
473294.48	3673931.77	145.52857	(20021820)	473297.14
3673977.40	146.14492	(19022619)		
473299.13	3674008.66	136.17951	(19122424)	473317.21
3673975.17	135.17916	(20120417)		
473333.80	3673968.06	125.79268	(19011618)	473353.07
3673967.47	115.91240	(19011618)		
473342.10	3673988.51	114.88726	(20020819)	473335.58
3674011.63	113.86404	(20020819)		
473335.58	3674032.67	109.38817	(21122507)	473358.10
3674038.89	98.78936	(21122507)		
473375.89	3674042.74	93.43018	(19122424)	473400.78
3674009.85	91.67856	(20020819)		
473403.45	3673987.32	95.56017	(19011618)	473399.60
3673968.65	99.36069	(21022618)		
473313.95	3673927.16	135.04874	(20012519)	473333.51
3673924.20	125.20861	(20012818)		
473352.77	3673925.09	116.79378	(20012818)	473347.14
3673891.30	117.88502	(20120717)		
473344.47	3673869.07	117.09178	(21020618)	473312.17
3673876.48	136.89751	(20012620)		
473294.39	3673875.00	143.66746	(21021019)	473272.45
3673871.44	153.88765	(21021019)		
473252.30	3673864.63	160.36767	(21021019)	473233.63
3673854.85	165.70832	(21011717)		

473218.52	3673848.03	170.26517	(21011017)	473203.70
3673839.14	171.98398	(21020308)		
473183.25	3673832.62	171.92653	(21020308)	473178.65
3673787.55	136.89539	(21120908)		
473199.57	3673778.84	128.54637	(21010917)	473221.53
3673784.07	128.94353	(21010917)		
473238.62	3673798.36	130.70292	(19022519)	473251.17
3673813.36	135.97907	(21011618)		
473267.56	3673818.93	134.76839	(21020308)	473287.78
3673826.61	128.12807	(20021319)		
473322.99	3673830.44	118.04444	(19022824)	473313.23
3673806.38	114.93123	(20122518)		
473316.37	3673785.11	109.43505	(19010920)	473339.73
3673772.21	102.28204	(21020919)		
473365.80	3673780.63	98.35102	(19012318)	473378.29
3673797.66	98.49933	(20021619)		
473383.97	3673819.24	101.69574	(19022824)	473388.51
3673840.24	101.66535	(20021919)		
473394.76	3673861.82	100.74554	(21020618)	473395.89
3673885.66	102.42731	(20120717)		
473400.44	3673902.70	102.71462	(21010617)	473401.57
3673926.54	100.59958	(20012818)		
473161.98	3673711.36	85.02921	(20120708)	473182.42
3673717.04	84.58299	(19022520)		
473199.45	3673722.72	89.34964	(20101607)	473218.75
3673726.13	92.84901	(20101607)		
473242.03	3673738.62	98.57747	(20101607)	473260.20
3673742.59	98.26278	(20101607)		
473281.21	3673739.75	98.14139	(21010917)	473305.62
3673733.51	98.17460	(21010917)		
473325.49	3673723.29	94.88995	(21010917)	473345.37
3673714.25	92.17275	(21010917)		
473178.56	3673658.05	75.14205	(20120708)	473200.27
3673666.26	75.10891	(20071206)		
473221.03	3673675.43	78.12932	(20122019)	473240.81
3673685.08	79.89402	(19022520)		
473268.32	3673691.35	84.89655	(20101607)	473236.95
3673648.88	73.98579	(20122019)		
473218.13	3673630.06	69.33960	(20071206)	473198.83
3673615.10	68.32531	(20120708)		

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*** AERMET - VERSION 22112 ***

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
473170.35	3673597.25	66.55574	(20120708)	472494.58
3673583.24	80.42629 (20050706)			
472515.95	3673581.24	78.10723	(20050706)	472535.32
3673580.57	80.09421 (21011520)			
472553.36	3673579.23	80.99276	(21011520)	472578.07
3673579.23	81.96118 (19121818)			
472596.11	3673569.88	81.59782	(19010823)	472618.15
3673561.87	84.31472 (20100907)			
472638.19	3673564.54	85.57866	(20100907)	472659.57
3673559.86	83.17445 (21011408)			
472682.28	3673555.85	82.76984	(21011408)	472700.31
3673559.19	82.93379 (19121204)			
472723.69	3673565.21	87.69605	(19010908)	472742.39
3673572.55	90.63104 (19010908)			
472763.10	3673577.23	90.47012	(19010908)	472783.14
3673586.58	89.80694 (19010908)			
472803.85	3673595.93	89.32357	(19020719)	472821.21
3673601.94	90.44375 (21032607)			
472839.92	3673613.30	92.30697	(21032607)	472862.63
3673613.97	89.04352 (21032607)			
472884.67	3673613.97	87.48505	(20011508)	472906.05
3673613.30	85.08364 (20011508)			
472926.75	3673615.30	82.60463	(19012908)	472946.12
3673617.31	81.51674 (19012908)			
472963.49	3673617.31	79.36363	(19012908)	472986.20
3673613.30	74.68834 (21021003)			
473002.23	3673613.30	73.41733	(19120119)	473023.61
3673613.30	72.11628 (20050806)			
473040.98	3673612.63	70.48970	(20050806)	473057.01
3673614.64	69.60612 (19090604)			
473080.39	3673615.30	69.12152	(20100707)	473093.07

3673596.21	65.97060	(20100707)		
473089.24	3673574.25	63.66707	(20100707)	473056.11
3673565.53	63.85442	(20100707)		
473035.19	3673565.18	64.37900	(21020419)	473013.92
3673564.13	66.08586	(20050806)		
472994.74	3673566.23	67.17615	(20050806)	472972.43
3673565.88	68.23824	(19011218)		
472950.46	3673566.23	70.59856	(19012908)	472931.28
3673565.18	73.38218	(19012908)		
472907.92	3673565.53	75.38641	(19012908)	472887.00
3673564.83	76.21314	(20011508)		
472853.87	3673563.79	79.06809	(20011508)	472857.36
3673541.82	74.87963	(20011508)		
472804.36	3673545.30	78.46929	(21032607)	472775.77
3673535.48	77.29019	(21032607)		
472783.56	3673515.38	73.90345	(21032607)	472816.38
3673526.04	72.89041	(19092122)		
472733.10	3673520.71	76.04369	(19010908)	472697.41
3673510.46	78.50766	(19010908)		
471413.35	3673545.19	25.56610	(21010708)	471391.54
3673536.33	25.12582	(21010708)		
471413.35	3673498.17	25.09842	(20120218)	471407.21
3673476.37	24.80440	(20120218)		
471383.37	3673433.44	23.92890	(21122101)	471411.98
3673429.35	24.55700	(21122101)		
471413.35	3673451.16	24.62048	(20011521)	471347.93
3673438.89	23.40955	(20011521)		
471462.00	3673587.42	25.46488	(21022321)	471482.09
3673581.15	26.38629	(21022321)		
471497.99	3673576.12	26.96052	(21022321)	471516.82
3673569.01	27.52213	(21010708)		
471531.47	3673562.32	27.99479	(21010708)	471549.88
3673559.39	28.01026	(21010708)		
471564.95	3673552.69	28.45227	(19122122)	471583.36
3673548.92	29.06510	(19122122)		
471600.52	3673543.07	29.81465	(20120218)	471615.16
3673537.63	30.31973	(20120218)		
471633.57	3673528.00	30.83569	(20120218)	471651.15
3673525.49	31.13142	(20120218)		
471667.89	3673519.21	31.79667	(21120601)	471687.14
3673515.87	32.52419	(21120601)		
471705.13	3673517.54	33.11073	(21122101)	471726.05
3673518.38	33.93118	(21122101)		
471744.05	3673520.05	34.58885	(21122101)	471757.44
3673526.33	35.09535	(21122101)		
471772.08	3673529.26	35.76123	(21122101)	471790.50
3673538.46	36.62562	(21120601)		
471805.14	3673548.09	37.48003	(21120601)	471821.46
3673558.55	38.30987	(21120601)		

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03/18/24

*** AERMET - VERSION 22112 *** ***

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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): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
471836.95	3673569.43	39.08741	(20120218)	471849.92
3673583.66	40.09925	(20120218)		
471870.00	3673590.35	41.05093	(20120218)	471888.42
3673587.84	41.52705	(20120218)		
471908.08	3673579.47	41.90703	(21120601)	471918.55
3673560.22	41.89653	(21021923)		
471928.17	3673537.21	41.81542	(20021721)	471939.47
3673517.96	42.51816	(21011804)		
471983.41	3673555.62	44.08214	(20021721)	471992.61
3673599.98	45.65130	(21120601)		
471957.59	3673575.85	43.13382	(21021923)	472017.22
3673601.40	46.61302	(21021923)		
472041.69	3673604.24	47.90015	(21021923)	472062.88
3673605.77	48.98573	(21021923)		
472085.16	3673606.21	49.99844	(21021923)	472110.93
3673606.43	51.57803	(20021721)		
472151.56	3673605.55	53.57624	(20021721)	472184.77
3673596.60	56.02171	(21011804)		
472002.59	3673562.96	45.01938	(20021721)	472026.83
3673567.54	46.00874	(20021721)		
472046.93	3673570.82	46.73504	(20021721)	472068.77
3673573.66	47.50116	(19011219)		

472087.34	3673580.21	48.59090	(20021721)	472111.59
3673584.58	50.29041 (21011804)			
472130.37	3673578.03	51.31760	(20022502)	472211.03
3673560.94	53.59415 (20010408)			
472231.85	3673546.55	54.28568	(21011721)	472186.10
3673557.60	51.49080 (20010408)			
472273.99	3673558.37	59.76715	(21011519)	472253.30
3673535.90	56.24924 (21011519)			
472236.37	3673525.02	54.50844	(21011519)	472174.69
3673541.04	51.38791 (20010408)			
472148.08	3673552.84	51.09924	(19022703)	472339.60
3673555.79	67.08605 (21021005)			
472371.60	3673560.22	69.55524	(21021005)	472390.31
3673573.02	71.94173 (21021005)			
472413.45	3673583.85	74.40107	(21021005)	472436.59
3673583.85	76.36522 (19121301)			
472456.28	3673580.41	77.97369	(20050706)	472475.97
3673580.41	79.64267 (20050706)			
473397.91	3674031.92	91.37165	(20020819)	473407.17
3674069.58	80.36220 (21122507)			
473485.37	3674092.17	68.46389	(19122424)	473492.32
3674103.17	64.71018 (21122507)			
473503.91	3674108.97	62.31202	(21122507)	473513.18
3674114.76	61.00386 (21122507)			
473524.76	3674121.13	60.92837	(21122507)	473545.04
3674132.71	56.73749 (21122507)			
473557.78	3674136.19	55.33455	(21122507)	473569.36
3674139.09	54.45752 (21122507)			
473566.47	3674148.35	53.15375	(21122507)	473579.21
3674148.35	54.16393 (21122507)			
473587.93	3674153.70	53.47805	(21122507)	473602.83
3674154.99	51.52579 (21122507)			
473596.66	3674164.75	49.59016	(21122507)	473610.03
3674159.61	49.88348 (21122507)			
473618.51	3674167.58	47.31166	(21122507)	473627.25
3674173.75	46.49677 (21122507)			
473634.70	3674177.61	46.52838	(21122507)	473542.95
3674092.27	61.40384 (19122424)			
473556.31	3674099.73	59.66969	(19122424)	473565.82
3674102.56	58.39413 (19122424)			
473595.89	3674115.92	54.69352	(19122424)	473604.12
3674119.78	53.84080 (19122424)			
473624.42	3674129.80	50.42540	(19122424)	473634.96
3674137.00	49.43822 (19122424)			
473645.50	3674144.45	49.54352	(19122424)	473655.52
3674148.56	49.00379 (19122424)			
473664.52	3674153.96	46.66431	(19122424)	473644.98
3674183.52	45.73340 (21122507)			
473659.63	3674192.51	43.38183	(21122507)	473670.69
3674201.51	41.94317 (21122507)			

473680.20	3674207.16	42.45783	(21122507)	473707.95
3674178.63	42.37133	(19122424)		
473690.73	3674211.02	42.71420	(21122507)	473701.27
3674217.19	42.02479	(21122507)		
473721.06	3674182.49	42.53367	(19122424)	473729.54
3674187.89	41.18692	(19122424)		
473712.07	3674220.01	41.13902	(21122507)	473688.16
3674162.44	43.90016	(19122424)		

^ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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 *** AERMET - VERSION 22112 *** ***
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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

473668.41	3674095.22	70.70642	(20120217)	473686.62
3674094.73	68.41406	(20120217)		
473704.84	3674096.20	67.04037	(19012718)	473720.60
3674099.65	65.38695	(19012718)		
473731.43	3674110.48	63.88921	(20120217)	473740.29
3674117.87	63.34583	(20120217)		
473755.07	3674126.24	61.89424	(20120217)	473763.44
3674136.58	60.58367	(20120217)		
473777.71	3674144.95	59.07048	(20120217)	473171.49
3673516.32	58.29340	(20120708)		
473163.38	3673542.97	60.42988	(20120708)	473196.98
3673539.49	61.35320	(20120708)		
473211.46	3673554.56	62.24706	(20120708)	473228.26

3673568.46	62.99128	(20071206)		
473241.01	3673587.00	63.51025	(20071206)	473261.28
3673600.32	66.21646	(20022018)		
473272.29	3673618.86	69.98155	(20122019)	473286.77
3673637.39	74.35541	(19022520)		
473298.94	3673655.93	78.48042	(21021020)	473314.58
3673674.47	83.52552	(21122221)		
473305.31	3673533.12	58.49291	(20022018)	473300.67
3673510.53	56.32547	(21091020)		
473318.05	3673542.97	59.48736	(20022018)	473330.80
3673560.35	62.30393	(20122019)		
473344.12	3673577.73	63.60319	(19022520)	473358.02
3673590.47	64.92065	(19022520)		
473365.56	3673606.69	67.34583	(21013120)	473380.04
3673624.07	69.95234	(20101607)		
473386.99	3673642.03	74.10219	(20101607)	473398.00
3673662.30	75.93715	(20120918)		
473410.16	3673680.84	80.66591	(21010917)	473415.95
3673699.96	84.62592	(21010917)		
473423.48	3673718.50	85.21079	(20012119)	473430.44
3673735.30	87.16194	(20022023)		
473438.55	3673754.41	88.95030	(21011618)	473445.50
3673773.53	86.95945	(20122518)		
473446.08	3673795.54	86.17027	(19022824)	473450.13
3673810.02	87.43074	(19022824)		
473453.61	3673831.46	85.92399	(20021919)	473723.15
3674226.75	39.73478	(21122507)		
473729.97	3674231.21	39.69682	(21122507)	473742.81
3674239.60	39.94188	(21122507)		
473755.40	3674243.53	39.87469	(21122507)	473764.05
3674249.03	39.65860	(21122507)		
473780.83	3674257.42	38.46713	(21122507)	473797.09
3674265.03	38.56914	(20012118)		
473810.98	3674270.80	39.17454	(20012118)	473820.95
3674276.56	39.42723	(20012118)		
473829.60	3674283.64	38.50501	(20012118)	473840.87
3674288.89	37.99453	(20012118)		
473852.93	3674293.34	37.34885	(20012118)	473850.31
3674302.00	36.35559	(20012118)		
473878.10	3674323.50	33.54028	(20012118)	473883.61
3674313.27	35.81219	(20012118)		
473742.81	3674195.29	41.10578	(19122424)	473751.73
3674202.89	40.94799	(19122424)		
473765.62	3674208.66	40.99583	(19122424)	473785.55
3674218.62	39.86599	(19122424)		
473806.53	3674227.54	39.96842	(19122424)	473815.96
3674241.17	39.05659	(20012008)		
473820.68	3674229.63	40.19620	(19122424)	473828.55
3674219.41	41.32013	(19122424)		
473852.93	3674255.59	39.62446	(20012008)	473857.13

3674223.60	41.82713	(20121720)		
473877.32	3674256.90	40.15999	(20121720)	473885.44
3674223.60	43.41089	(21020220)		
473884.92	3674236.97	42.39960	(20121720)	473889.11
3674246.68	41.72823	(20121720)		
473890.69	3674259.00	40.29591	(20121720)	473790.34
3674151.70	57.81672	(21021420)		
473804.49	3674155.89	56.70990	(20120217)	473817.34
3674165.59	55.67617	(21021420)		
473831.24	3674167.95	54.68032	(21021420)	473845.13
3674175.56	53.89983	(21021420)		
473857.46	3674180.80	53.07929	(21021420)	473878.69
3674182.37	51.42848	(21021420)		
473888.40	3674182.90	50.73444	(20120217)	473909.63
3674178.96	50.06547	(20120217)		
473921.17	3674213.05	45.06779	(21020220)	473924.32
3674226.68	42.33789	(21020220)		

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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): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

473925.37	3674235.86	41.13514	(21020220)	473927.99
3674250.02	39.63844	(20121720)		
473920.91	3674166.12	49.81896	(20022518)	473905.67
3674343.94	31.68570	(20012118)		

473905.67	3674331.60	33.59491	(20012118)	473902.40
3674319.99	34.92975	(20012118)		
473903.12	3674308.37	35.95890	(20012118)	473902.04
3674297.49	36.55605	(20012008)		
473895.87	3674285.51	37.92539	(20012008)	473927.80
3674277.16	37.80217	(20121720)		
473931.43	3674289.50	36.66135	(20012008)	473934.70
3674298.94	35.54572	(20012008)		
473935.79	3674310.91	34.34364	(20012008)	473936.87
3674321.80	33.06909	(20012118)		
473938.69	3674332.69	32.00065	(20012118)	473938.33
3674343.94	30.66883	(20012118)		
473937.24	3674356.28	29.62714	(20012118)	472973.34
3674068.27	94.67377	(19012020)		
472708.40	3674302.45	59.52445	(19012924)	473244.94
3674859.00	39.19506	(21011219)		
474401.07	3673529.71	29.71407	(21020308)	474394.27
3673517.47	29.65631	(20122518)		
474388.83	3673491.19	29.84554	(21011618)	474387.92
3673473.52	29.55171	(21011618)		
474390.19	3673453.58	29.03335	(19010920)	474388.83
3673439.98	29.19980	(19010920)		
474382.49	3673420.04	29.23193	(20022023)	474383.85
3673398.29	28.97205	(20022023)		
474432.79	3673399.65	28.22377	(20022023)	474430.98
3673418.23	28.28913	(19010920)		
474434.60	3673467.63	28.81978	(21011618)	474429.62
3673520.65	28.97652	(21020308)		
471878.05	3675532.07	12.28031	(21020820)	471270.02
3675228.05	7.21159	(21011524)		
471149.85	3675175.18	6.86616	(19120324)	471196.72
3675152.34	6.98756	(19120324)		
471158.26	3675127.11	6.87240	(19011323)	472890.48
3671907.11	12.67837	(20020319)		
472162.82	3673159.42	41.91463	(20012022)	

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304
 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE	GRID-ID	

ALL	1ST HIGHEST VALUE IS	83.37881 AT (	473153.71, 3673931.17, 78.04,
141.59,	0.00) DC		
	2ND HIGHEST VALUE IS	73.69468 AT (	473149.56, 3673875.16, 80.16,
141.59,	0.00) DC		
	3RD HIGHEST VALUE IS	60.44641 AT (	473169.12, 3673885.24, 79.25,
141.59,	0.00) DC		
	4TH HIGHEST VALUE IS	58.36403 AT (	473173.57, 3673940.36, 79.36,
141.59,	0.00) DC		
	5TH HIGHEST VALUE IS	49.80305 AT (	473187.20, 3673893.54, 79.35,
141.59,	0.00) DC		
	6TH HIGHEST VALUE IS	46.75351 AT (	473190.16, 3673947.47, 78.99,
141.59,	0.00) DC		
	7TH HIGHEST VALUE IS	41.88109 AT (	473203.50, 3673901.84, 80.12,
141.59,	0.00) DC		
	8TH HIGHEST VALUE IS	37.63633 AT (	473207.35, 3673954.88, 79.08,
141.59,	0.00) DC		
	9TH HIGHEST VALUE IS	35.34852 AT (	473221.28, 3673910.73, 79.87,
141.59,	0.00) DC		
	10TH HIGHEST VALUE IS	30.13562 AT (	473238.76, 3673917.54, 79.66,
141.59,	0.00) DC		

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

DATE

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	(YYMMDDHH)	RECEPTOR

ALL HIGH 1ST HIGH VALUE IS 302.14596 ON 19022619: AT (473153.71,
3673931.17, 78.04, 141.59, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***
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*** 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 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
ME W186 914 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 914 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***
*** 15:18:33

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 399 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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: PM₁₀

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 399 Source(s); 1 Source Group(s); and 2123
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 399 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**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) = 92.00 ; 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 = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Trolley Place Construction.err

**File for Summary of Results: Trolley Place Construction.sum

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 *** ***
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*** 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

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

10.80, 1.54, 3.09, 5.14, 8.23,

```

*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ  U*
                                     PAGE    3

```

```
Upper air station no.:      3190
                        Name: UNKNOWN
                        Year:   2019
```

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							
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	
1.00	1.57	25.		7.9	280.3	2.0								
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	
1.00	1.79	35.		7.9	279.8	2.0								
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	
1.00	2.45	31.		7.9	279.2	2.0								
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	
1.00	1.77	41.		7.9	278.1	2.0								
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93	
1.00	2.18	30.		7.9	279.2	2.0								
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93	
1.00	2.10	24.		7.9	278.8	2.0								
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93	
1.00	2.20	6.		7.9	279.8	2.0								
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93	
0.50	3.42	40.		7.9	280.9	2.0								
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93	
0.29	2.61	41.		7.9	283.1	2.0								
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93	
0.22	2.67	7.		7.9	284.8	2.0								
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93	
0.20	2.57	17.		7.9	286.4	2.0								
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93	
0.19	2.62	2.		7.9	287.0	2.0								
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93	
0.19	3.35	353.		7.9	287.5	2.0								
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93	
0.20	2.88	7.		7.9	288.8	2.0								
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93	
0.23	3.07	64.		7.9	288.8	2.0								
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93	
0.32	4.29	87.		7.9	287.0	2.0								
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93	
0.60	3.93	114.		7.9	285.3	2.0								
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93	
1.00	1.53	116.		7.9	283.8	2.0								
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93	
1.00	1.57	98.		7.9	282.0	2.0								
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93	
1.00	1.11	98.		7.9	279.8	2.0								
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93	
1.00	1.43	25.		7.9	279.8	2.0								
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93	
1.00	1.64	39.		7.9	279.2	2.0								
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93	

1.00 2.44 49. 7.9 279.2 2.0
 19 01 01 1 24 -25.8 0.257 -9.000 -9.000 -999. 312. 72.5 0.03 0.93
 1.00 3.83 69. 7.9 280.3 2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	7.9	1	25.	1.57	280.4	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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 *** AERMET - VERSION 22112 *** ***
 *** 15:18:33

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304
 HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -

ALL	1ST HIGHEST VALUE IS	83.37881 AT (	473153.71,	3673931.17,	78.04,
141.59,	0.00) DC				
	2ND HIGHEST VALUE IS	73.69468 AT (	473149.56,	3673875.16,	80.16,
141.59,	0.00) DC				
	3RD HIGHEST VALUE IS	60.44641 AT (	473169.12,	3673885.24,	79.25,
141.59,	0.00) DC				
	4TH HIGHEST VALUE IS	58.36403 AT (	473173.57,	3673940.36,	79.36,
141.59,	0.00) DC				
	5TH HIGHEST VALUE IS	49.80305 AT (	473187.20,	3673893.54,	79.35,
141.59,	0.00) DC				
	6TH HIGHEST VALUE IS	46.75351 AT (	473190.16,	3673947.47,	78.99,
141.59,	0.00) DC				
	7TH HIGHEST VALUE IS	41.88109 AT (	473203.50,	3673901.84,	80.12,
141.59,	0.00) DC				
	8TH HIGHEST VALUE IS	37.63633 AT (	473207.35,	3673954.88,	79.08,
141.59,	0.00) DC				
	9TH HIGHEST VALUE IS	35.34852 AT (	473221.28,	3673910.73,	79.87,
141.59,	0.00) DC				

10TH HIGHEST VALUE IS 30.13562 AT (473238.76, 3673917.54, 79.66, 141.59, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
*** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE GRID-ID	(YYMMDDHH)	
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -

ALL HIGH 1ST HIGH VALUE IS 302.14596 ON 19022619: AT (473153.71, 3673931.17, 78.04, 141.59, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/18/24
*** AERMET - VERSION 22112 ***
*** 15:18:33

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*** 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 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

ME W186 914 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
 0.50
ME W187 914 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

HARP2 - HRACalc (dated 22118) 4/23/2024 3:12:03 PM - 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: 1.92

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.92
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: True
Dermal: True
Mother's milk: True
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

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Warm

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\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_UnmitCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_UnmitCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_UnmitNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_UnmitNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_UnmitNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_UnmitNCAcuteRiskSumByRec.csv

HRA ran successfully

HARP2 - HRACalc (dated 22118) 4/23/2024 3:14:56 PM - 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: 1.92

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.92
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: True
Dermal: True
Mother's milk: True
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

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Warm

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\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_MitCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_MitCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_MitNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_MitNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_MitNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\HARP2\HARP\TROLLEY PLACE OFFSITE CON

HARP\hra\Olive_Park_Apts_MitNCAcuteRiskSumByRec.csv

HRA ran successfully

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 3/28/2024
** File: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place
Construction Onsite\Trolley Place Construction Onsite.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place Con
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 3276208 San_Diego_County_Population
  POLLUTID PM_10
  FLAGPOLE 0.00
  RUNORNOT RUN
  ERRORFIL "Trolley Place Construction Onsite.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 13
** 472907.568, 3673791.174, 71.71, 5.00, 4.65
** 473108.088, 3673875.343, 80.85, 5.00, 4.65

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** 473067.984, 3673912.476, 73.44, 5.00, 4.65
 ** 472862.513, 3673815.930, 65.60, 5.00, 4.65
 ** 472886.774, 3673790.184, 70.25, 5.00, 4.65
 ** 473093.234, 3673877.819, 80.85, 5.00, 4.65
 ** 473065.013, 3673902.079, 74.37, 5.00, 4.65
 ** 472888.754, 3673818.405, 66.97, 5.00, 4.65
 ** 472903.607, 3673804.542, 69.71, 5.00, 4.65
 ** 473062.538, 3673872.372, 82.52, 5.00, 4.65
 ** 473048.179, 3673885.245, 80.68, 5.00, 4.65
 ** 472902.122, 3673818.405, 68.41, 5.00, 4.65
 ** 472907.568, 3673812.959, 68.66, 5.00, 4.65

** -----

LOCATION L0000001	VOLUME	472912.179	3673793.110	72.01
LOCATION L0000002	VOLUME	472921.399	3673796.980	72.74
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LOCATION L0000004	VOLUME	472939.840	3673804.721	74.42
LOCATION L0000005	VOLUME	472949.061	3673808.591	75.44
LOCATION L0000006	VOLUME	472958.282	3673812.461	76.29
LOCATION L0000007	VOLUME	472967.502	3673816.332	77.44
LOCATION L0000008	VOLUME	472976.723	3673820.202	78.79
LOCATION L0000009	VOLUME	472985.944	3673824.073	80.79
LOCATION L0000010	VOLUME	472995.164	3673827.943	82.83
LOCATION L0000011	VOLUME	473004.385	3673831.813	84.74
LOCATION L0000012	VOLUME	473013.606	3673835.684	86.26
LOCATION L0000013	VOLUME	473022.826	3673839.554	87.11
LOCATION L0000014	VOLUME	473032.047	3673843.425	87.83
LOCATION L0000015	VOLUME	473041.267	3673847.295	88.08
LOCATION L0000016	VOLUME	473050.488	3673851.165	87.87
LOCATION L0000017	VOLUME	473059.709	3673855.036	87.21
LOCATION L0000018	VOLUME	473068.929	3673858.906	86.30
LOCATION L0000019	VOLUME	473078.150	3673862.777	85.29
LOCATION L0000020	VOLUME	473087.371	3673866.647	84.27
LOCATION L0000021	VOLUME	473096.591	3673870.517	83.23
LOCATION L0000022	VOLUME	473105.812	3673874.388	82.14
LOCATION L0000023	VOLUME	473102.561	3673880.460	80.58
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LOCATION L0000025	VOLUME	473087.886	3673894.048	77.30
LOCATION L0000026	VOLUME	473080.549	3673900.842	75.70
LOCATION L0000027	VOLUME	473073.211	3673907.636	74.17
LOCATION L0000028	VOLUME	473065.381	3673911.253	73.48
LOCATION L0000029	VOLUME	473056.330	3673907.000	74.31
LOCATION L0000030	VOLUME	473047.279	3673902.748	75.00
LOCATION L0000031	VOLUME	473038.229	3673898.495	75.77
LOCATION L0000032	VOLUME	473029.178	3673894.242	76.17
LOCATION L0000033	VOLUME	473020.127	3673889.989	76.66
LOCATION L0000034	VOLUME	473011.077	3673885.737	77.36
LOCATION L0000035	VOLUME	473002.026	3673881.484	77.27
LOCATION L0000036	VOLUME	472992.975	3673877.231	76.54
LOCATION L0000037	VOLUME	472983.925	3673872.979	75.69
LOCATION L0000038	VOLUME	472974.874	3673868.726	74.11

LOCATION	L0000039	VOLUME	472965.823	3673864.473	72.59
LOCATION	L0000040	VOLUME	472956.773	3673860.220	71.28
LOCATION	L0000041	VOLUME	472947.722	3673855.968	70.24
LOCATION	L0000042	VOLUME	472938.671	3673851.715	68.79
LOCATION	L0000043	VOLUME	472929.621	3673847.462	67.72
LOCATION	L0000044	VOLUME	472920.570	3673843.210	67.64
LOCATION	L0000045	VOLUME	472911.519	3673838.957	67.44
LOCATION	L0000046	VOLUME	472902.469	3673834.704	67.13
LOCATION	L0000047	VOLUME	472893.418	3673830.451	66.80
LOCATION	L0000048	VOLUME	472884.367	3673826.199	66.46
LOCATION	L0000049	VOLUME	472875.317	3673821.946	66.20
LOCATION	L0000050	VOLUME	472866.266	3673817.693	66.10
LOCATION	L0000051	VOLUME	472866.528	3673811.670	66.68
LOCATION	L0000052	VOLUME	472873.386	3673804.392	67.82
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LOCATION	L0000054	VOLUME	472887.214	3673790.371	70.29
LOCATION	L0000055	VOLUME	472896.419	3673794.278	70.47
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LOCATION	L0000061	VOLUME	472951.650	3673817.721	74.14
LOCATION	L0000062	VOLUME	472960.855	3673821.629	75.17
LOCATION	L0000063	VOLUME	472970.060	3673825.536	77.13
LOCATION	L0000064	VOLUME	472979.265	3673829.443	79.13
LOCATION	L0000065	VOLUME	472988.470	3673833.350	81.13
LOCATION	L0000066	VOLUME	472997.675	3673837.257	83.00
LOCATION	L0000067	VOLUME	473006.880	3673841.165	84.75
LOCATION	L0000068	VOLUME	473016.085	3673845.072	85.87
LOCATION	L0000069	VOLUME	473025.290	3673848.979	86.53
LOCATION	L0000070	VOLUME	473034.495	3673852.886	86.79
LOCATION	L0000071	VOLUME	473043.701	3673856.793	86.27
LOCATION	L0000072	VOLUME	473052.906	3673860.701	85.59
LOCATION	L0000073	VOLUME	473062.111	3673864.608	84.87
LOCATION	L0000074	VOLUME	473071.316	3673868.515	83.86
LOCATION	L0000075	VOLUME	473080.521	3673872.422	82.84
LOCATION	L0000076	VOLUME	473089.726	3673876.329	81.80
LOCATION	L0000077	VOLUME	473088.542	3673881.853	80.41
LOCATION	L0000078	VOLUME	473080.958	3673888.372	78.81
LOCATION	L0000079	VOLUME	473073.375	3673894.891	77.29
LOCATION	L0000080	VOLUME	473065.792	3673901.409	75.83
LOCATION	L0000081	VOLUME	473056.907	3673898.231	76.46
LOCATION	L0000082	VOLUME	473047.874	3673893.942	77.24
LOCATION	L0000083	VOLUME	473038.840	3673889.654	78.08
LOCATION	L0000084	VOLUME	473029.806	3673885.365	78.71
LOCATION	L0000085	VOLUME	473020.772	3673881.077	79.37
LOCATION	L0000086	VOLUME	473011.739	3673876.788	79.73
LOCATION	L0000087	VOLUME	473002.705	3673872.500	79.14
LOCATION	L0000088	VOLUME	472993.671	3673868.211	78.36

LOCATION L0000089	VOLUME	472984.637	3673863.923	77.53
LOCATION L0000090	VOLUME	472975.604	3673859.634	76.03
LOCATION L0000091	VOLUME	472966.570	3673855.346	74.60
LOCATION L0000092	VOLUME	472957.536	3673851.057	73.26
LOCATION L0000093	VOLUME	472948.502	3673846.769	71.44
LOCATION L0000094	VOLUME	472939.469	3673842.480	69.82
LOCATION L0000095	VOLUME	472930.435	3673838.192	68.72
LOCATION L0000096	VOLUME	472921.401	3673833.904	68.52
LOCATION L0000097	VOLUME	472912.367	3673829.615	68.18
LOCATION L0000098	VOLUME	472903.334	3673825.327	67.79
LOCATION L0000099	VOLUME	472894.300	3673821.038	67.45
LOCATION L0000100	VOLUME	472891.577	3673815.771	67.80
LOCATION L0000101	VOLUME	472898.887	3673808.948	69.04
LOCATION L0000102	VOLUME	472906.867	3673805.933	69.91
LOCATION L0000103	VOLUME	472916.064	3673809.859	70.49
LOCATION L0000104	VOLUME	472925.261	3673813.784	70.97
LOCATION L0000105	VOLUME	472934.459	3673817.709	71.44
LOCATION L0000106	VOLUME	472943.656	3673821.635	72.34
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LOCATION L0000108	VOLUME	472962.051	3673829.485	75.15
LOCATION L0000109	VOLUME	472971.248	3673833.411	77.16
LOCATION L0000110	VOLUME	472980.445	3673837.336	79.21
LOCATION L0000111	VOLUME	472989.643	3673841.261	81.16
LOCATION L0000112	VOLUME	472998.840	3673845.187	82.89
LOCATION L0000113	VOLUME	473008.038	3673849.112	84.50
LOCATION L0000114	VOLUME	473017.235	3673853.038	85.08
LOCATION L0000115	VOLUME	473026.432	3673856.963	85.09
LOCATION L0000116	VOLUME	473035.630	3673860.888	85.00
LOCATION L0000117	VOLUME	473044.827	3673864.814	84.36
LOCATION L0000118	VOLUME	473054.024	3673868.739	83.63
LOCATION L0000119	VOLUME	473061.984	3673872.869	82.79
LOCATION L0000120	VOLUME	473054.538	3673879.544	80.96
LOCATION L0000121	VOLUME	473046.852	3673884.638	79.55
LOCATION L0000122	VOLUME	473037.759	3673880.476	80.42
LOCATION L0000123	VOLUME	473028.666	3673876.315	80.90
LOCATION L0000124	VOLUME	473019.573	3673872.154	81.21
LOCATION L0000125	VOLUME	473010.480	3673867.993	81.41
LOCATION L0000126	VOLUME	473001.387	3673863.832	80.59
LOCATION L0000127	VOLUME	472992.294	3673859.670	79.72
LOCATION L0000128	VOLUME	472983.200	3673855.509	78.71
LOCATION L0000129	VOLUME	472974.107	3673851.348	77.24
LOCATION L0000130	VOLUME	472965.014	3673847.187	75.23
LOCATION L0000131	VOLUME	472955.921	3673843.025	73.26
LOCATION L0000132	VOLUME	472946.828	3673838.864	71.63
LOCATION L0000133	VOLUME	472937.735	3673834.703	70.19
LOCATION L0000134	VOLUME	472928.642	3673830.542	69.38
LOCATION L0000135	VOLUME	472919.549	3673826.380	69.03
LOCATION L0000136	VOLUME	472910.456	3673822.219	68.56
LOCATION L0000137	VOLUME	472902.713	3673817.815	68.34

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

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SRCPARAM	L0000002	0.0072992701	5.00	4.65	4.65
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[illegible]

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SRCPARAM	L0000119	0.0072992701	5.00	4.65	4.65
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SRCPARAM	L0000123	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000124	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000125	0.0072992701	5.00	4.65	4.65
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SRCPARAM	L0000127	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000128	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000129	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000130	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000131	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000132	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000133	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000134	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000135	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000136	0.0072992701	5.00	4.65	4.65
SRCPARAM	L0000137	0.0072992701	5.00	4.65	4.65

** -----

URBANSRC ALL

SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "Trolley Place Construction Onsite.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE McClellanPalomar_2019_2021_v22112.SFC

PROFFILE McClellanPalomar_2019_2021_v22112.PFL

SURFDATA 3177 2019

UAIRDATA 3190 2019

PROFBASE 92.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "TROLLEY PLACE CONSTRUCTION ONSITE.AD\01H1GALL.PLT" 31

PLOTFILE PERIOD ALL "TROLLEY PLACE CONSTRUCTION ONSITE.AD\PE00GALL.PLT" 32

SUMMFILE "Trolley Place Construction Onsite.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 364 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50

ME W187 364 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 137 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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 Accepts 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: 137 Source(s); 1 Source Group(s); and 40
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 137 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**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) = 92.00 ; 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 = 3.6 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Trolley Place Construction Onsite.err

**File for Summary of Results: Trolley Place Construction Onsite.sum

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000001		0	0.72993E-02	472912.2	3673793.1	72.0	5.00	4.65
4.65	YES		NO					
L0000002		0	0.72993E-02	472921.4	3673797.0	72.7	5.00	4.65
4.65	YES		NO					
L0000003		0	0.72993E-02	472930.6	3673800.8	73.4	5.00	4.65
4.65	YES		NO					
L0000004		0	0.72993E-02	472939.8	3673804.7	74.4	5.00	4.65
4.65	YES		NO					
L0000005		0	0.72993E-02	472949.1	3673808.6	75.4	5.00	4.65
4.65	YES		NO					
L0000006		0	0.72993E-02	472958.3	3673812.5	76.3	5.00	4.65
4.65	YES		NO					
L0000007		0	0.72993E-02	472967.5	3673816.3	77.4	5.00	4.65
4.65	YES		NO					
L0000008		0	0.72993E-02	472976.7	3673820.2	78.8	5.00	4.65
4.65	YES		NO					
L0000009		0	0.72993E-02	472985.9	3673824.1	80.8	5.00	4.65
4.65	YES		NO					
L0000010		0	0.72993E-02	472995.2	3673827.9	82.8	5.00	4.65
4.65	YES		NO					
L0000011		0	0.72993E-02	473004.4	3673831.8	84.7	5.00	4.65
4.65	YES		NO					
L0000012		0	0.72993E-02	473013.6	3673835.7	86.3	5.00	4.65
4.65	YES		NO					
L0000013		0	0.72993E-02	473022.8	3673839.6	87.1	5.00	4.65
4.65	YES		NO					
L0000014		0	0.72993E-02	473032.0	3673843.4	87.8	5.00	4.65
4.65	YES		NO					
L0000015		0	0.72993E-02	473041.3	3673847.3	88.1	5.00	4.65
4.65	YES		NO					
L0000016		0	0.72993E-02	473050.5	3673851.2	87.9	5.00	4.65
4.65	YES		NO					
L0000017		0	0.72993E-02	473059.7	3673855.0	87.2	5.00	4.65
4.65	YES		NO					
L0000018		0	0.72993E-02	473068.9	3673858.9	86.3	5.00	4.65
4.65	YES		NO					
L0000019		0	0.72993E-02	473078.1	3673862.8	85.3	5.00	4.65
4.65	YES		NO					
L0000020		0	0.72993E-02	473087.4	3673866.6	84.3	5.00	4.65

4.65	YES		NO				
L0000021		0	0.72993E-02	473096.6	3673870.5	83.2	5.00
4.65	YES		NO				4.65
L0000022		0	0.72993E-02	473105.8	3673874.4	82.1	5.00
4.65	YES		NO				4.65
L0000023		0	0.72993E-02	473102.6	3673880.5	80.6	5.00
4.65	YES		NO				4.65
L0000024		0	0.72993E-02	473095.2	3673887.3	79.1	5.00
4.65	YES		NO				4.65
L0000025		0	0.72993E-02	473087.9	3673894.0	77.3	5.00
4.65	YES		NO				4.65
L0000026		0	0.72993E-02	473080.5	3673900.8	75.7	5.00
4.65	YES		NO				4.65
L0000027		0	0.72993E-02	473073.2	3673907.6	74.2	5.00
4.65	YES		NO				4.65
L0000028		0	0.72993E-02	473065.4	3673911.3	73.5	5.00
4.65	YES		NO				4.65
L0000029		0	0.72993E-02	473056.3	3673907.0	74.3	5.00
4.65	YES		NO				4.65
L0000030		0	0.72993E-02	473047.3	3673902.7	75.0	5.00
4.65	YES		NO				4.65
L0000031		0	0.72993E-02	473038.2	3673898.5	75.8	5.00
4.65	YES		NO				4.65
L0000032		0	0.72993E-02	473029.2	3673894.2	76.2	5.00
4.65	YES		NO				4.65
L0000033		0	0.72993E-02	473020.1	3673890.0	76.7	5.00
4.65	YES		NO				4.65
L0000034		0	0.72993E-02	473011.1	3673885.7	77.4	5.00
4.65	YES		NO				4.65
L0000035		0	0.72993E-02	473002.0	3673881.5	77.3	5.00
4.65	YES		NO				4.65
L0000036		0	0.72993E-02	472993.0	3673877.2	76.5	5.00
4.65	YES		NO				4.65
L0000037		0	0.72993E-02	472983.9	3673873.0	75.7	5.00
4.65	YES		NO				4.65
L0000038		0	0.72993E-02	472974.9	3673868.7	74.1	5.00
4.65	YES		NO				4.65
L0000039		0	0.72993E-02	472965.8	3673864.5	72.6	5.00
4.65	YES		NO				4.65
L0000040		0	0.72993E-02	472956.8	3673860.2	71.3	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0000041	0	0.72993E-02	472947.7	3673856.0	70.2	5.00	4.65
4.65 YES		NO					
L0000042	0	0.72993E-02	472938.7	3673851.7	68.8	5.00	4.65
4.65 YES		NO					
L0000043	0	0.72993E-02	472929.6	3673847.5	67.7	5.00	4.65
4.65 YES		NO					
L0000044	0	0.72993E-02	472920.6	3673843.2	67.6	5.00	4.65
4.65 YES		NO					
L0000045	0	0.72993E-02	472911.5	3673839.0	67.4	5.00	4.65
4.65 YES		NO					
L0000046	0	0.72993E-02	472902.5	3673834.7	67.1	5.00	4.65
4.65 YES		NO					
L0000047	0	0.72993E-02	472893.4	3673830.5	66.8	5.00	4.65
4.65 YES		NO					
L0000048	0	0.72993E-02	472884.4	3673826.2	66.5	5.00	4.65
4.65 YES		NO					
L0000049	0	0.72993E-02	472875.3	3673821.9	66.2	5.00	4.65
4.65 YES		NO					
L0000050	0	0.72993E-02	472866.3	3673817.7	66.1	5.00	4.65
4.65 YES		NO					
L0000051	0	0.72993E-02	472866.5	3673811.7	66.7	5.00	4.65
4.65 YES		NO					
L0000052	0	0.72993E-02	472873.4	3673804.4	67.8	5.00	4.65
4.65 YES		NO					
L0000053	0	0.72993E-02	472880.2	3673797.1	69.1	5.00	4.65
4.65 YES		NO					
L0000054	0	0.72993E-02	472887.2	3673790.4	70.3	5.00	4.65
4.65 YES		NO					
L0000055	0	0.72993E-02	472896.4	3673794.3	70.5	5.00	4.65
4.65 YES		NO					
L0000056	0	0.72993E-02	472905.6	3673798.2	70.7	5.00	4.65
4.65 YES		NO					
L0000057	0	0.72993E-02	472914.8	3673802.1	71.3	5.00	4.65
4.65 YES		NO					
L0000058	0	0.72993E-02	472924.0	3673806.0	71.9	5.00	4.65
4.65 YES		NO					
L0000059	0	0.72993E-02	472933.2	3673809.9	72.4	5.00	4.65
4.65 YES		NO					
L0000060	0	0.72993E-02	472942.4	3673813.8	73.4	5.00	4.65

4.65	YES		NO				
L0000061		0	0.72993E-02	472951.6	3673817.7	74.1	5.00
4.65	YES		NO				4.65
L0000062		0	0.72993E-02	472960.9	3673821.6	75.2	5.00
4.65	YES		NO				4.65
L0000063		0	0.72993E-02	472970.1	3673825.5	77.1	5.00
4.65	YES		NO				4.65
L0000064		0	0.72993E-02	472979.3	3673829.4	79.1	5.00
4.65	YES		NO				4.65
L0000065		0	0.72993E-02	472988.5	3673833.3	81.1	5.00
4.65	YES		NO				4.65
L0000066		0	0.72993E-02	472997.7	3673837.3	83.0	5.00
4.65	YES		NO				4.65
L0000067		0	0.72993E-02	473006.9	3673841.2	84.8	5.00
4.65	YES		NO				4.65
L0000068		0	0.72993E-02	473016.1	3673845.1	85.9	5.00
4.65	YES		NO				4.65
L0000069		0	0.72993E-02	473025.3	3673849.0	86.5	5.00
4.65	YES		NO				4.65
L0000070		0	0.72993E-02	473034.5	3673852.9	86.8	5.00
4.65	YES		NO				4.65
L0000071		0	0.72993E-02	473043.7	3673856.8	86.3	5.00
4.65	YES		NO				4.65
L0000072		0	0.72993E-02	473052.9	3673860.7	85.6	5.00
4.65	YES		NO				4.65
L0000073		0	0.72993E-02	473062.1	3673864.6	84.9	5.00
4.65	YES		NO				4.65
L0000074		0	0.72993E-02	473071.3	3673868.5	83.9	5.00
4.65	YES		NO				4.65
L0000075		0	0.72993E-02	473080.5	3673872.4	82.8	5.00
4.65	YES		NO				4.65
L0000076		0	0.72993E-02	473089.7	3673876.3	81.8	5.00
4.65	YES		NO				4.65
L0000077		0	0.72993E-02	473088.5	3673881.9	80.4	5.00
4.65	YES		NO				4.65
L0000078		0	0.72993E-02	473081.0	3673888.4	78.8	5.00
4.65	YES		NO				4.65
L0000079		0	0.72993E-02	473073.4	3673894.9	77.3	5.00
4.65	YES		NO				4.65
L0000080		0	0.72993E-02	473065.8	3673901.4	75.8	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000081	0	0.72993E-02	473056.9	3673898.2	76.5	5.00	4.65
4.65 YES		NO					
L0000082	0	0.72993E-02	473047.9	3673893.9	77.2	5.00	4.65
4.65 YES		NO					
L0000083	0	0.72993E-02	473038.8	3673889.7	78.1	5.00	4.65
4.65 YES		NO					
L0000084	0	0.72993E-02	473029.8	3673885.4	78.7	5.00	4.65
4.65 YES		NO					
L0000085	0	0.72993E-02	473020.8	3673881.1	79.4	5.00	4.65
4.65 YES		NO					
L0000086	0	0.72993E-02	473011.7	3673876.8	79.7	5.00	4.65
4.65 YES		NO					
L0000087	0	0.72993E-02	473002.7	3673872.5	79.1	5.00	4.65
4.65 YES		NO					
L0000088	0	0.72993E-02	472993.7	3673868.2	78.4	5.00	4.65
4.65 YES		NO					
L0000089	0	0.72993E-02	472984.6	3673863.9	77.5	5.00	4.65
4.65 YES		NO					
L0000090	0	0.72993E-02	472975.6	3673859.6	76.0	5.00	4.65
4.65 YES		NO					
L0000091	0	0.72993E-02	472966.6	3673855.3	74.6	5.00	4.65
4.65 YES		NO					
L0000092	0	0.72993E-02	472957.5	3673851.1	73.3	5.00	4.65
4.65 YES		NO					
L0000093	0	0.72993E-02	472948.5	3673846.8	71.4	5.00	4.65
4.65 YES		NO					
L0000094	0	0.72993E-02	472939.5	3673842.5	69.8	5.00	4.65
4.65 YES		NO					
L0000095	0	0.72993E-02	472930.4	3673838.2	68.7	5.00	4.65
4.65 YES		NO					
L0000096	0	0.72993E-02	472921.4	3673833.9	68.5	5.00	4.65
4.65 YES		NO					
L0000097	0	0.72993E-02	472912.4	3673829.6	68.2	5.00	4.65
4.65 YES		NO					
L0000098	0	0.72993E-02	472903.3	3673825.3	67.8	5.00	4.65
4.65 YES		NO					
L0000099	0	0.72993E-02	472894.3	3673821.0	67.5	5.00	4.65
4.65 YES		NO					
L0000100	0	0.72993E-02	472891.6	3673815.8	67.8	5.00	4.65

4.65	YES		NO				
L0000101		0	0.72993E-02	472898.9	3673808.9	69.0	5.00
4.65	YES		NO				4.65
L0000102		0	0.72993E-02	472906.9	3673805.9	69.9	5.00
4.65	YES		NO				4.65
L0000103		0	0.72993E-02	472916.1	3673809.9	70.5	5.00
4.65	YES		NO				4.65
L0000104		0	0.72993E-02	472925.3	3673813.8	71.0	5.00
4.65	YES		NO				4.65
L0000105		0	0.72993E-02	472934.5	3673817.7	71.4	5.00
4.65	YES		NO				4.65
L0000106		0	0.72993E-02	472943.7	3673821.6	72.3	5.00
4.65	YES		NO				4.65
L0000107		0	0.72993E-02	472952.9	3673825.6	73.6	5.00
4.65	YES		NO				4.65
L0000108		0	0.72993E-02	472962.1	3673829.5	75.1	5.00
4.65	YES		NO				4.65
L0000109		0	0.72993E-02	472971.2	3673833.4	77.2	5.00
4.65	YES		NO				4.65
L0000110		0	0.72993E-02	472980.4	3673837.3	79.2	5.00
4.65	YES		NO				4.65
L0000111		0	0.72993E-02	472989.6	3673841.3	81.2	5.00
4.65	YES		NO				4.65
L0000112		0	0.72993E-02	472998.8	3673845.2	82.9	5.00
4.65	YES		NO				4.65
L0000113		0	0.72993E-02	473008.0	3673849.1	84.5	5.00
4.65	YES		NO				4.65
L0000114		0	0.72993E-02	473017.2	3673853.0	85.1	5.00
4.65	YES		NO				4.65
L0000115		0	0.72993E-02	473026.4	3673857.0	85.1	5.00
4.65	YES		NO				4.65
L0000116		0	0.72993E-02	473035.6	3673860.9	85.0	5.00
4.65	YES		NO				4.65
L0000117		0	0.72993E-02	473044.8	3673864.8	84.4	5.00
4.65	YES		NO				4.65
L0000118		0	0.72993E-02	473054.0	3673868.7	83.6	5.00
4.65	YES		NO				4.65
L0000119		0	0.72993E-02	473062.0	3673872.9	82.8	5.00
4.65	YES		NO				4.65
L0000120		0	0.72993E-02	473054.5	3673879.5	81.0	5.00
4.65	YES		NO				4.65

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID		SCALAR	VARY					
(METERS)		CATS.	BY					

L0000121	0	0.72993E-02	473046.9	3673884.6	79.5	5.00	4.65
4.65 YES		NO					
L0000122	0	0.72993E-02	473037.8	3673880.5	80.4	5.00	4.65
4.65 YES		NO					
L0000123	0	0.72993E-02	473028.7	3673876.3	80.9	5.00	4.65
4.65 YES		NO					
L0000124	0	0.72993E-02	473019.6	3673872.2	81.2	5.00	4.65
4.65 YES		NO					
L0000125	0	0.72993E-02	473010.5	3673868.0	81.4	5.00	4.65
4.65 YES		NO					
L0000126	0	0.72993E-02	473001.4	3673863.8	80.6	5.00	4.65
4.65 YES		NO					
L0000127	0	0.72993E-02	472992.3	3673859.7	79.7	5.00	4.65
4.65 YES		NO					
L0000128	0	0.72993E-02	472983.2	3673855.5	78.7	5.00	4.65
4.65 YES		NO					
L0000129	0	0.72993E-02	472974.1	3673851.3	77.2	5.00	4.65
4.65 YES		NO					
L0000130	0	0.72993E-02	472965.0	3673847.2	75.2	5.00	4.65
4.65 YES		NO					
L0000131	0	0.72993E-02	472955.9	3673843.0	73.3	5.00	4.65
4.65 YES		NO					
L0000132	0	0.72993E-02	472946.8	3673838.9	71.6	5.00	4.65
4.65 YES		NO					
L0000133	0	0.72993E-02	472937.7	3673834.7	70.2	5.00	4.65
4.65 YES		NO					
L0000134	0	0.72993E-02	472928.6	3673830.5	69.4	5.00	4.65
4.65 YES		NO					
L0000135	0	0.72993E-02	472919.5	3673826.4	69.0	5.00	4.65
4.65 YES		NO					
L0000136	0	0.72993E-02	472910.5	3673822.2	68.6	5.00	4.65
4.65 YES		NO					
L0000137	0	0.72993E-02	472902.7	3673817.8	68.3	5.00	4.65
4.65 YES		NO					

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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs					
-----	-----					
ALL	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,
L0000006	, L0000007	, L0000008	,			
	L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,
L0000014	, L0000015	, L0000016	,			
	L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,
L0000022	, L0000023	, L0000024	,			
	L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,
L0000030	, L0000031	, L0000032	,			
	L0000033	, L0000034	, L0000035	, L0000036	, L0000037	,
L0000038	, L0000039	, L0000040	,			
	L0000041	, L0000042	, L0000043	, L0000044	, L0000045	,
L0000046	, L0000047	, L0000048	,			
	L0000049	, L0000050	, L0000051	, L0000052	, L0000053	,
L0000054	, L0000055	, L0000056	,			
	L0000057	, L0000058	, L0000059	, L0000060	, L0000061	,
L0000062	, L0000063	, L0000064	,			
	L0000065	, L0000066	, L0000067	, L0000068	, L0000069	,
L0000070	, L0000071	, L0000072	,			
	L0000073	, L0000074	, L0000075	, L0000076	, L0000077	,
L0000078	, L0000079	, L0000080	,			
	L0000081	, L0000082	, L0000083	, L0000084	, L0000085	,
L0000086	, L0000087	, L0000088	,			
	L0000089	, L0000090	, L0000091	, L0000092	, L0000093	,
L0000094	, L0000095	, L0000096	,			
	L0000097	, L0000098	, L0000099	, L0000100	, L0000101	,
L0000102	, L0000103	, L0000104	,			
	L0000105	, L0000106	, L0000107	, L0000108	, L0000109	,

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L0000110      , L0000111      , L0000112      ,
               L0000113      , L0000114      , L0000115      , L0000116      , L0000117      ,
L0000118      , L0000119      , L0000120      ,
               L0000121      , L0000122      , L0000123      , L0000124      , L0000125      ,
L0000126      , L0000127      , L0000128      ,
               L0000129      , L0000130      , L0000131      , L0000132      , L0000133      ,
L0000134      , L0000135      , L0000136      ,
               L0000137      ,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000005	3276208.	L0000001 , L0000002 , L0000003 , L0000004 ,
L0000008	, L0000006	, L0000007 ,
	,	
L0000014	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,	
	, L0000015 , L0000016 ,	
L0000022	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,	
	, L0000023 , L0000024 ,	
L0000030	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 ,	
	, L0000031 , L0000032 ,	
L0000038	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 ,	
	, L0000039 , L0000040 ,	
L0000046	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 ,	
	, L0000047 , L0000048 ,	
L0000054	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 ,	
	, L0000055 , L0000056 ,	

L0000062	L0000057 , L0000063	, L0000058 , L0000064	, L0000059 ,	, L0000060	, L0000061	,
L0000070	L0000065 , L0000071	, L0000066 , L0000072	, L0000067 ,	, L0000068	, L0000069	,
L0000078	L0000073 , L0000079	, L0000074 , L0000080	, L0000075 ,	, L0000076	, L0000077	,
L0000086	L0000081 , L0000087	, L0000082 , L0000088	, L0000083 ,	, L0000084	, L0000085	,
L0000094	L0000089 , L0000095	, L0000090 , L0000096	, L0000091 ,	, L0000092	, L0000093	,
L0000102	L0000097 , L0000103	, L0000098 , L0000104	, L0000099 ,	, L0000100	, L0000101	,
L0000110	L0000105 , L0000111	, L0000106 , L0000112	, L0000107 ,	, L0000108	, L0000109	,
L0000118	L0000113 , L0000119	, L0000114 , L0000120	, L0000115 ,	, L0000116	, L0000117	,
L0000126	L0000121 , L0000127	, L0000122 , L0000128	, L0000123 ,	, L0000124	, L0000125	,
L0000134	L0000129 , L0000135	, L0000130 , L0000136	, L0000131 ,	, L0000132	, L0000133	,

L0000137 ,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)

(472708.4, 3674302.4,	96.5,	110.4,	0.0);	(473244.9,
3674859.0,	105.7,	105.7,	0.0);	
(474401.1, 3673529.7,	110.4,	115.1,	0.0);	(474394.3,
3673517.5,	110.4,	110.4,	0.0);	
(474388.8, 3673491.2,	110.4,	110.4,	0.0);	(474387.9,
3673473.5,	110.4,	110.4,	0.0);	
(474390.2, 3673453.6,	110.1,	110.1,	0.0);	(474388.8,


```

3673440.0,    110.0,    110.0,    0.0);
    ( 474382.5, 3673420.0,    109.9,    109.9,    0.0);    ( 474383.8,
3673398.3,    109.8,    109.8,    0.0);
    ( 474432.8, 3673399.6,    109.7,    109.7,    0.0);    ( 474431.0,
3673418.2,    109.9,    109.9,    0.0);
    ( 474434.6, 3673467.6,    110.1,    110.1,    0.0);    ( 474429.6,
3673520.6,    110.4,    110.4,    0.0);
    ( 471878.0, 3675532.1,    81.7,    81.7,    0.0);    ( 471270.0,
3675228.0,    70.7,    70.7,    0.0);
    ( 471149.8, 3675175.2,    70.1,    70.1,    0.0);    ( 471196.7,
3675152.3,    69.5,    69.5,    0.0);
    ( 471158.3, 3675127.1,    69.5,    69.5,    0.0);    ( 472890.5,
3671907.1,    81.6,    81.6,    0.0);
    ( 472162.8, 3673159.4,    101.9,    114.5,    0.0);    ( 473000.8,
3673852.4,    82.7,    141.6,    22.0);
    ( 472970.4, 3673823.6,    77.3,    141.6,    22.0);    ( 472931.9,
3673842.8,    68.3,    141.6,    22.0);
    ( 472878.8, 3673805.5,    68.1,    141.6,    22.0);    ( 472890.0,
3673809.3,    68.4,    141.6,    22.0);
    ( 473002.7, 3673855.2,    82.5,    141.6,    0.0);    ( 472971.9,
3673821.2,    77.7,    141.6,    0.0);
    ( 472933.4, 3673840.7,    68.7,    141.6,    0.0);    ( 472891.3,
3673807.6,    68.7,    141.6,    0.0);
    ( 472875.4, 3673805.4,    67.9,    141.6,    0.0);    ( 473029.9,
3673859.0,    84.9,    141.6,    0.0);
    ( 473078.4, 3673885.2,    79.6,    141.6,    0.0);    ( 473069.5,
3673878.8,    81.3,    141.6,    0.0);
    ( 473039.3, 3673885.7,    79.1,    141.6,    0.0);    ( 473041.2,
3673865.9,    84.0,    141.6,    0.0);
    ( 473024.9, 3673864.0,    83.4,    141.6,    22.0);    ( 473044.7,
3673889.2,    78.3,    141.6,    22.0);
    ( 473074.9, 3673888.2,    78.9,    141.6,    22.0);    ( 473067.5,
3673877.3,    81.6,    141.6,    22.0);

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
FASTAREA/FASTALL

DISTANCE	SOURCE	- - RECEPTOR LOCATION - -
	ID	XR (METERS) YR (METERS)

(METERS)

- - -

	L0000007	472970.4	3673823.6
-2.19	L0000007	472971.9	3673821.2
-3.43	L0000008	472970.4	3673823.6
-2.83	L0000008	472971.9	3673821.2
-5.05	L0000043	472931.9	3673842.8
-4.83	L0000043	472933.4	3673840.7
-2.26	L0000051	472875.4	3673805.4
0.91	L0000052	472878.8	3673805.5
-4.46	L0000052	472875.4	3673805.4
-7.72	L0000053	472878.8	3673805.5
-1.49	L0000053	472875.4	3673805.4
-0.44	L0000062	472970.4	3673823.6
-0.26	L0000063	472970.4	3673823.6
-8.01	L0000063	472971.9	3673821.2
-5.32	L0000064	472970.4	3673823.6
0.63	L0000070	473029.9	3673859.0
-2.33	L0000071	473041.2	3673865.9
-0.53	L0000074	473069.5	3673878.8
0.46	L0000074	473067.5	3673877.3
-0.40	L0000077	473078.4	3673885.2
0.72	L0000078	473078.4	3673885.2
-5.95	L0000078	473074.9	3673888.2
-3.96	L0000079	473078.4	3673885.2
0.87			

-3.15	L0000079	473074.9	3673888.2
-4.31	L0000082	473044.7	3673889.2
-6.06	L0000083	473039.3	3673885.7
-4.11	L0000083	473044.7	3673889.2
-0.53	L0000084	473039.3	3673885.7
-2.44	L0000094	472931.9	3673842.8
-3.66	L0000094	472933.4	3673840.7
-5.13	L0000095	472931.9	3673842.8
-6.12	L0000095	472933.4	3673840.7
-3.37	L0000100	472890.0	3673809.3
-1.87	L0000100	472891.3	3673807.6
-1.07	L0000101	472890.0	3673809.3
-2.28	L0000101	472891.3	3673807.6
0.23	L0000108	472970.4	3673823.6
-0.13	L0000109	472970.4	3673823.6
-2.47	L0000112	473000.8	3673852.4
0.71	L0000112	473002.7	3673855.2

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
 BE PERFORMED *
 LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
 FASTAREA/FASTALL

SOURCE - - RECEPTOR LOCATION - -
 DISTANCE

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

10.80, 1.54, 3.09, 5.14, 8.23,

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Upper air station no.:      3190
                        Name: UNKNOWN
                        Year:  2019
```

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							
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	
1.00	1.57	25.		7.9	280.3	2.0								
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	
1.00	1.79	35.		7.9	279.8	2.0								
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	
1.00	2.45	31.		7.9	279.2	2.0								
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	
1.00	1.77	41.		7.9	278.1	2.0								
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93	
1.00	2.18	30.		7.9	279.2	2.0								
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93	
1.00	2.10	24.		7.9	278.8	2.0								
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93	
1.00	2.20	6.		7.9	279.8	2.0								
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93	
0.50	3.42	40.		7.9	280.9	2.0								
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93	
0.29	2.61	41.		7.9	283.1	2.0								
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93	
0.22	2.67	7.		7.9	284.8	2.0								
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93	
0.20	2.57	17.		7.9	286.4	2.0								
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93	
0.19	2.62	2.		7.9	287.0	2.0								
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93	
0.19	3.35	353.		7.9	287.5	2.0								
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93	
0.20	2.88	7.		7.9	288.8	2.0								
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93	
0.23	3.07	64.		7.9	288.8	2.0								
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93	
0.32	4.29	87.		7.9	287.0	2.0								
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93	
0.60	3.93	114.		7.9	285.3	2.0								
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93	
1.00	1.53	116.		7.9	283.8	2.0								
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93	
1.00	1.57	98.		7.9	282.0	2.0								
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93	
1.00	1.11	98.		7.9	279.8	2.0								
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93	
1.00	1.43	25.		7.9	279.8	2.0								
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93	
1.00	1.64	39.		7.9	279.2	2.0								
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93	

1.00 2.44 49. 7.9 279.2 2.0
 19 01 01 1 24 -25.8 0.257 -9.000 -9.000 -999. 312. 72.5 0.03 0.93
 1.00 3.83 69. 7.9 280.3 2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	7.9	1	25.	1.57	280.4	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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 *** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
472708.40	3674302.45	3.06952	473244.94
3674859.00	0.83255		
474401.07	3673529.71	0.74328	474394.27
3673517.47	0.73930		
474388.83	3673491.19	0.72417	474387.92
3673473.52	0.71269		
474390.19	3673453.58	0.70024	474388.83
3673439.98	0.69230		
474382.49	3673420.04	0.68132	474383.85
3673398.29	0.66644		
474432.79	3673399.65	0.64635	474430.98

3673418.23	0.65767		
474434.60	3673467.63	0.68669	474429.62
3673520.65	0.72042		
471878.05	3675532.07	0.47689	471270.02
3675228.05	0.39948		
471149.85	3675175.18	0.37716	471196.72
3675152.34	0.39173		
471158.26	3675127.11	0.38578	472890.48
3671907.11	0.32866		
472162.82	3673159.42	1.36092	473000.81
3673852.45	5.24612		
472970.40	3673823.58	8.83484	472931.92
3673842.83	21.41934		
472878.81	3673805.50	15.00099	472889.97
3673809.34	15.42544		
473002.66	3673855.19	193.30195	472971.88
3673821.23	179.84795		
472933.39	3673840.70	183.78156	472891.28
3673807.65	138.62299		
472875.44	3673805.38	97.30391	473029.86
3673859.00	186.72116		
473078.38	3673885.25	154.55342	473069.47
3673878.81	172.89259		
473039.27	3673885.74	179.62114	473041.25
3673865.94	185.16974		
473024.91	3673863.96	5.55032	473044.71
3673889.21	9.12725		
473074.92	3673888.22	10.06858	473067.49
3673877.32	7.91277		

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)		Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)

	472708.40	3674302.45	66.34485	(21120222)	473244.94
3674859.00		39.93200 (19020118)			
	474401.07	3673529.71	31.05337	(21020308)	474394.27
3673517.47		31.12164 (21020308)			
	474388.83	3673491.19	30.09026	(20122518)	474387.92
3673473.52		30.23694 (20122518)			
	474390.19	3673453.58	30.28120	(21011618)	474388.83
3673439.98		30.20420 (21011618)			
	474382.49	3673420.04	29.53665	(21011618)	474383.85
3673398.29		29.73857 (19010920)			
	474432.79	3673399.65	28.52352	(19010920)	474430.98
3673418.23		29.03711 (21011618)			
	474434.60	3673467.63	29.25313	(20122518)	474429.62
3673520.65		30.39337 (21020308)			
	471878.05	3675532.07	11.06439	(20021119)	471270.02
3675228.05		7.01610 (21021520)			
	471149.85	3675175.18	6.77197	(19120324)	471196.72
3675152.34		6.99500 (21011524)			
	471158.26	3675127.11	6.95633	(19120324)	472890.48
3671907.11		11.71454 (20012922)			
	472162.82	3673159.42	44.92368	(20012022)	473000.81
3673852.45		72.45563 (21092507)			
	472970.40	3673823.58	87.34745	(20100107)	472931.92
3673842.83		123.97413 (21021108)			
	472878.81	3673805.50	123.93895	(20100107)	472889.97
3673809.34		124.18561 (20100107)			
	473002.66	3673855.19	599.89066	(20100219)	472971.88
3673821.23		544.91453 (20091324)			
	472933.39	3673840.70	534.32158	(20091324)	472891.28
3673807.65		443.64657 (20091324)			
	472875.44	3673805.38	374.12286	(20022521)	473029.86
3673859.00		574.89298 (20100219)			
	473078.38	3673885.25	425.77916	(20091324)	473069.47
3673878.81		487.91880 (20091324)			
	473039.27	3673885.74	511.52798	(20091324)	473041.25
3673865.94		554.57382 (20100219)			
	473024.91	3673863.96	72.45053	(21092507)	473044.71
3673889.21		82.20460 (19120715)			
	473074.92	3673888.22	83.67591	(19120715)	473067.49
3673877.32		71.45659 (20063007)			

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304
HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE	GRID-ID		
- - - - -	- - - - -	- - - - -	- - - - -
ALL	1ST HIGHEST VALUE IS	193.30195 AT (473002.66, 3673855.19, 82.52,	
141.59, 0.00) DC			
	2ND HIGHEST VALUE IS	186.72116 AT (473029.86, 3673859.00, 84.94,	
141.59, 0.00) DC			
	3RD HIGHEST VALUE IS	185.16974 AT (473041.25, 3673865.94, 83.99,	
141.59, 0.00) DC			
	4TH HIGHEST VALUE IS	183.78156 AT (472933.39, 3673840.70, 68.73,	
141.59, 0.00) DC			
	5TH HIGHEST VALUE IS	179.84795 AT (472971.88, 3673821.23, 77.67,	
141.59, 0.00) DC			
	6TH HIGHEST VALUE IS	179.62114 AT (473039.27, 3673885.74, 79.11,	
141.59, 0.00) DC			
	7TH HIGHEST VALUE IS	172.89259 AT (473069.47, 3673878.81, 81.26,	
141.59, 0.00) DC			
	8TH HIGHEST VALUE IS	154.55342 AT (473078.38, 3673885.25, 79.61,	
141.59, 0.00) DC			
	9TH HIGHEST VALUE IS	138.62299 AT (472891.28, 3673807.65, 68.67,	
141.59, 0.00) DC			
	10TH HIGHEST VALUE IS	97.30391 AT (472875.44, 3673805.38, 67.86,	
141.59, 0.00) DC			

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK AVERAGE CONC OF TYPE GRID-ID	
- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -

ALL HIGH 1ST HIGH VALUE IS 599.89066 ON 20100219: AT (473002.66,
3673855.19, 82.52, 141.59, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive -
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*** AERMET - VERSION 22112 ***
*** 17:03:13

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL 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 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

ME W186 364 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50

ME W187 364 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 137 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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 Accepts FLAGPOLE Receptor . Heights.
- * The User Specified a Pollutant Type of: PM₁₀

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 137 Source(s); 1 Source Group(s); and 40
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 137 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

1 1 1 1 1 1 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.

10.80, 1.54, 3.09, 5.14, 8.23,

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```
DATA *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
```

```
Upper air station no.:      3190
                        Name: UNKNOWN
                        Year:  2019
```

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							
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	
1.00	1.57	25.		7.9	280.3	2.0								
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	
1.00	1.79	35.		7.9	279.8	2.0								
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	
1.00	2.45	31.		7.9	279.2	2.0								
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	
1.00	1.77	41.		7.9	278.1	2.0								
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93	
1.00	2.18	30.		7.9	279.2	2.0								
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93	
1.00	2.10	24.		7.9	278.8	2.0								
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93	
1.00	2.20	6.		7.9	279.8	2.0								
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93	
0.50	3.42	40.		7.9	280.9	2.0								
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93	
0.29	2.61	41.		7.9	283.1	2.0								
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93	
0.22	2.67	7.		7.9	284.8	2.0								
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93	
0.20	2.57	17.		7.9	286.4	2.0								
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93	
0.19	2.62	2.		7.9	287.0	2.0								
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93	
0.19	3.35	353.		7.9	287.5	2.0								
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93	
0.20	2.88	7.		7.9	288.8	2.0								
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93	
0.23	3.07	64.		7.9	288.8	2.0								
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93	
0.32	4.29	87.		7.9	287.0	2.0								
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93	
0.60	3.93	114.		7.9	285.3	2.0								
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93	
1.00	1.53	116.		7.9	283.8	2.0								
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93	
1.00	1.57	98.		7.9	282.0	2.0								
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93	
1.00	1.11	98.		7.9	279.8	2.0								
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93	
1.00	1.43	25.		7.9	279.8	2.0								
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93	
1.00	1.64	39.		7.9	279.2	2.0								
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93	

1.00 2.44 49. 7.9 279.2 2.0
 19 01 01 1 24 -25.8 0.257 -9.000 -9.000 -999. 312. 72.5 0.03 0.93
 1.00 3.83 69. 7.9 280.3 2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	7.9	1	25.	1.57	280.4	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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 *** 17:03:13

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304
 HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
ALL	1ST HIGHEST VALUE IS	193.30195 AT (	473002.66, 3673855.19, 82.52,
141.59,	0.00) DC		
ALL	2ND HIGHEST VALUE IS	186.72116 AT (	473029.86, 3673859.00, 84.94,
141.59,	0.00) DC		
ALL	3RD HIGHEST VALUE IS	185.16974 AT (	473041.25, 3673865.94, 83.99,
141.59,	0.00) DC		
ALL	4TH HIGHEST VALUE IS	183.78156 AT (	472933.39, 3673840.70, 68.73,
141.59,	0.00) DC		
ALL	5TH HIGHEST VALUE IS	179.84795 AT (	472971.88, 3673821.23, 77.67,
141.59,	0.00) DC		
ALL	6TH HIGHEST VALUE IS	179.62114 AT (	473039.27, 3673885.74, 79.11,
141.59,	0.00) DC		
ALL	7TH HIGHEST VALUE IS	172.89259 AT (	473069.47, 3673878.81, 81.26,
141.59,	0.00) DC		
ALL	8TH HIGHEST VALUE IS	154.55342 AT (	473078.38, 3673885.25, 79.61,
141.59,	0.00) DC		
ALL	9TH HIGHEST VALUE IS	138.62299 AT (	472891.28, 3673807.65, 68.67,
141.59,	0.00) DC		

10TH HIGHEST VALUE IS 97.30391 AT (472875.44, 3673805.38, 67.86, 141.59, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE GRID-ID	(YYMMDDHH)	
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -

ALL HIGH 1ST HIGH VALUE IS 599.89066 ON 20100219: AT (473002.66, 3673855.19, 82.52, 141.59, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 03/28/24
*** AERMET - VERSION 22112 ***
*** 17:03:13

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL 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 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****
ME W186 364 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
 0.50
ME W187 364 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

HARP2 - HRACalc (dated 22118) 4/23/2024 3:33:38 PM - 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: 0.84

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.84
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: True
Dermal: True
Mother's milk: True
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

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Warm

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\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Unmit_OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Unmit_OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Unmit_OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Unmit_OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Unmit_OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Unmit_OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

HARP2 - HRACalc (dated 22118) 4/23/2024 3:36:03 PM - 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: 0.84

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.84
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: True
Dermal: True
Mother's milk: True
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

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Warm

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\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Mit_OnsiteCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Mit_OnsiteCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Mit_OnsiteNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Mit_OnsiteNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Mit_OnsiteNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\TROLLEY ONSITE CON

HARP2\hra\Olive_Park_Mit_OnsiteNCAcuteRiskSumByRec.csv

HRA ran successfully

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/12/2024
** File: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place
Ops\Trolley Place Ops.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\Trolley Place Con
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 3276208 San_Diego_County_Population
  POLLUTID PM_10
  FLAGPOLE 0.00
  RUNORNOT RUN
  ERRORFIL "Trolley Place Ops.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION SPRNIDLEEB1 POINT 473166.120 3674006.850 68.540
** DESCRSRC Sprinter Train Idle East Bound College Blvd Station
  LOCATION SPRNIDLEWB1 POINT 473100.010 3673988.420 67.390
** DESCRSRC Sprinter Train Idle Westbound College Blvd Station
  LOCATION SPRINIDLEEB2 POINT 470994.110 3673672.260 45.030
** DESCRSRC Sprinter Train Idle East Bound Rancho del Oro Station
  LOCATION SPRINIDLEWB2 POINT 470951.490 3673668.350 45.090
** DESCRSRC Sprinter Train Idle West Bound Rancho del Oro Station
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SPRNTRVL
** DESCRSRC Sprinter Rail Line Travel
** PREFIX

```



```

** Length of Side = 11.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 9.52
** SZINIT = 4.43
** Nodes = 43
** 470943.282, 3673665.613, 44.55, 4.76, 5.12
** 471347.951, 3673740.291, 47.94, 4.76, 5.12
** 471408.022, 3673747.327, 49.04, 4.76, 5.12
** 471455.645, 3673752.738, 49.21, 4.76, 5.12
** 471492.985, 3673755.444, 49.89, 4.76, 5.12
** 471548.183, 3673759.232, 50.68, 4.76, 5.12
** 471621.239, 3673764.103, 52.35, 4.76, 5.12
** 471666.156, 3673767.891, 53.24, 4.76, 5.12
** 471735.424, 3673771.679, 53.60, 4.76, 5.12
** 471755.988, 3673774.385, 53.64, 4.76, 5.12
** 472168.893, 3673801.984, 56.70, 4.76, 5.12
** 472321.499, 3673811.184, 58.35, 4.76, 5.12
** 472496.294, 3673823.630, 60.46, 4.76, 5.12
** 472581.256, 3673830.124, 61.47, 4.76, 5.12
** 472677.234, 3673836.174, 62.60, 4.76, 5.12
** 472741.564, 3673841.461, 63.47, 4.76, 5.12
** 472803.250, 3673854.680, 64.14, 4.76, 5.12
** 472862.292, 3673876.710, 64.81, 4.76, 5.12
** 473338.156, 3674094.374, 69.50, 4.76, 5.12
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** 473672.141, 3674252.995, 74.37, 4.76, 5.12
** 473777.889, 3674320.850, 76.88, 4.76, 5.12
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** 473936.510, 3674413.379, 79.40, 4.76, 5.12
** 474000.840, 3674445.103, 79.60, 4.76, 5.12
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** 474661.761, 3674679.510, 93.77, 4.76, 5.12
** 474744.597, 3674725.333, 95.63, 4.76, 5.12
** 474788.658, 3674783.495, 96.40, 4.76, 5.12
** 474798.351, 3674825.794, 97.98, 4.76, 5.12
** 474830.957, 3674926.254, 97.89, 4.76, 5.12
** 474848.581, 3674963.265, 99.59, 4.76, 5.12
** 474875.018, 3675012.614, 100.71, 4.76, 5.12
** 474922.605, 3675061.963, 101.80, 4.76, 5.12
** 474959.616, 3675107.787, 102.79, 4.76, 5.12
** 474984.291, 3675135.986, 104.03, 4.76, 5.12
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LOCATION	L0000002	VOLUME	470959.508	3673668.607	45.13
LOCATION	L0000003	VOLUME	470970.325	3673670.604	44.98
LOCATION	L0000004	VOLUME	470981.142	3673672.600	44.97
LOCATION	L0000005	VOLUME	470991.960	3673674.596	45.18
LOCATION	L0000006	VOLUME	471002.777	3673676.592	45.39
LOCATION	L0000007	VOLUME	471013.595	3673678.588	45.28
LOCATION	L0000008	VOLUME	471024.412	3673680.585	45.36
LOCATION	L0000009	VOLUME	471035.229	3673682.581	45.48
LOCATION	L0000010	VOLUME	471046.047	3673684.577	45.78
LOCATION	L0000011	VOLUME	471056.864	3673686.573	46.02
LOCATION	L0000012	VOLUME	471067.681	3673688.570	46.15
LOCATION	L0000013	VOLUME	471078.499	3673690.566	46.25
LOCATION	L0000014	VOLUME	471089.316	3673692.562	46.25
LOCATION	L0000015	VOLUME	471100.133	3673694.558	46.20
LOCATION	L0000016	VOLUME	471110.951	3673696.555	46.20
LOCATION	L0000017	VOLUME	471121.768	3673698.551	46.30
LOCATION	L0000018	VOLUME	471132.585	3673700.547	46.62
LOCATION	L0000019	VOLUME	471143.403	3673702.543	47.02
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LOCATION	L0000021	VOLUME	471165.037	3673706.536	46.95
LOCATION	L0000022	VOLUME	471175.855	3673708.532	47.06
LOCATION	L0000023	VOLUME	471186.672	3673710.528	47.42
LOCATION	L0000024	VOLUME	471197.489	3673712.525	47.78
LOCATION	L0000025	VOLUME	471208.307	3673714.521	47.62
LOCATION	L0000026	VOLUME	471219.124	3673716.517	47.65
LOCATION	L0000027	VOLUME	471229.941	3673718.513	47.69
LOCATION	L0000028	VOLUME	471240.759	3673720.510	47.91
LOCATION	L0000029	VOLUME	471251.576	3673722.506	48.20
LOCATION	L0000030	VOLUME	471262.394	3673724.502	47.98
LOCATION	L0000031	VOLUME	471273.211	3673726.498	47.91
LOCATION	L0000032	VOLUME	471284.028	3673728.495	47.86
LOCATION	L0000033	VOLUME	471294.846	3673730.491	48.04
LOCATION	L0000034	VOLUME	471305.663	3673732.487	48.37
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LOCATION	L0000036	VOLUME	471327.298	3673736.480	48.09
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LOCATION	L0000038	VOLUME	471348.942	3673740.407	48.05
LOCATION	L0000039	VOLUME	471359.867	3673741.687	48.36
LOCATION	L0000040	VOLUME	471370.793	3673742.966	48.61
LOCATION	L0000041	VOLUME	471381.718	3673744.246	48.52
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LOCATION	L0000043	VOLUME	471403.569	3673746.805	48.40
LOCATION	L0000044	VOLUME	471414.497	3673748.062	48.37
LOCATION	L0000045	VOLUME	471425.426	3673749.304	48.40
LOCATION	L0000046	VOLUME	471436.356	3673750.546	48.62
LOCATION	L0000047	VOLUME	471447.286	3673751.788	49.02
LOCATION	L0000048	VOLUME	471458.225	3673752.925	49.18
LOCATION	L0000049	VOLUME	471469.196	3673753.720	49.23
LOCATION	L0000050	VOLUME	471480.167	3673754.515	49.26

LOCATION	L0000051	VOLUME	471491.139	3673755.310	49.34
LOCATION	L0000052	VOLUME	471502.112	3673756.071	49.61
LOCATION	L0000053	VOLUME	471513.087	3673756.824	49.81
LOCATION	L0000054	VOLUME	471524.061	3673757.577	50.00
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LOCATION	L0000056	VOLUME	471546.009	3673759.083	50.36
LOCATION	L0000057	VOLUME	471556.984	3673759.819	50.54
LOCATION	L0000058	VOLUME	471567.960	3673760.551	50.84
LOCATION	L0000059	VOLUME	471578.936	3673761.282	51.27
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LOCATION	L0000061	VOLUME	471600.887	3673762.746	51.89
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LOCATION	L0000075	VOLUME	471754.415	3673774.178	53.51
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LOCATION	L0000079	VOLUME	471798.307	3673777.213	53.38
LOCATION	L0000080	VOLUME	471809.283	3673777.947	53.33
LOCATION	L0000081	VOLUME	471820.258	3673778.681	53.30
LOCATION	L0000082	VOLUME	471831.234	3673779.414	53.27
LOCATION	L0000083	VOLUME	471842.209	3673780.148	53.31
LOCATION	L0000084	VOLUME	471853.185	3673780.881	53.51
LOCATION	L0000085	VOLUME	471864.160	3673781.615	53.72
LOCATION	L0000086	VOLUME	471875.136	3673782.349	53.81
LOCATION	L0000087	VOLUME	471886.111	3673783.082	53.78
LOCATION	L0000088	VOLUME	471897.087	3673783.816	53.77
LOCATION	L0000089	VOLUME	471908.062	3673784.550	53.77
LOCATION	L0000090	VOLUME	471919.038	3673785.283	53.80
LOCATION	L0000091	VOLUME	471930.013	3673786.017	53.85
LOCATION	L0000092	VOLUME	471940.989	3673786.750	53.88
LOCATION	L0000093	VOLUME	471951.964	3673787.484	53.92
LOCATION	L0000094	VOLUME	471962.940	3673788.218	53.97
LOCATION	L0000095	VOLUME	471973.915	3673788.951	54.05
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LOCATION	L0000099	VOLUME	472017.817	3673791.886	55.01
LOCATION	L0000100	VOLUME	472028.793	3673792.619	55.08

LOCATION L0000101	VOLUME	472039.768	3673793.353	55.14
LOCATION L0000102	VOLUME	472050.744	3673794.087	55.22
LOCATION L0000103	VOLUME	472061.719	3673794.820	55.35
LOCATION L0000104	VOLUME	472072.695	3673795.554	55.41
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LOCATION L0000106	VOLUME	472094.646	3673797.021	55.60
LOCATION L0000107	VOLUME	472105.621	3673797.755	55.66
LOCATION L0000108	VOLUME	472116.597	3673798.488	55.74
LOCATION L0000109	VOLUME	472127.573	3673799.222	55.98
LOCATION L0000110	VOLUME	472138.548	3673799.956	55.28
LOCATION L0000111	VOLUME	472149.524	3673800.689	56.24
LOCATION L0000112	VOLUME	472160.499	3673801.423	56.61
LOCATION L0000113	VOLUME	472171.476	3673802.140	56.82
LOCATION L0000114	VOLUME	472182.456	3673802.801	56.86
LOCATION L0000115	VOLUME	472193.436	3673803.463	56.93
LOCATION L0000116	VOLUME	472204.416	3673804.125	57.01
LOCATION L0000117	VOLUME	472215.396	3673804.787	57.09
LOCATION L0000118	VOLUME	472226.376	3673805.449	57.18
LOCATION L0000119	VOLUME	472237.356	3673806.111	57.27
LOCATION L0000120	VOLUME	472248.336	3673806.773	57.32
LOCATION L0000121	VOLUME	472259.316	3673807.435	57.36
LOCATION L0000122	VOLUME	472270.296	3673808.097	57.47
LOCATION L0000123	VOLUME	472281.276	3673808.759	57.73
LOCATION L0000124	VOLUME	472292.256	3673809.421	58.00
LOCATION L0000125	VOLUME	472303.236	3673810.083	58.13
LOCATION L0000126	VOLUME	472314.216	3673810.744	58.33
LOCATION L0000127	VOLUME	472325.194	3673811.447	58.55
LOCATION L0000128	VOLUME	472336.166	3673812.228	58.68
LOCATION L0000129	VOLUME	472347.138	3673813.009	58.68
LOCATION L0000130	VOLUME	472358.111	3673813.791	58.78
LOCATION L0000131	VOLUME	472369.083	3673814.572	58.86
LOCATION L0000132	VOLUME	472380.055	3673815.353	58.95
LOCATION L0000133	VOLUME	472391.027	3673816.134	59.00
LOCATION L0000134	VOLUME	472401.999	3673816.916	59.04
LOCATION L0000135	VOLUME	472412.972	3673817.697	59.15
LOCATION L0000136	VOLUME	472423.944	3673818.478	59.38
LOCATION L0000137	VOLUME	472434.916	3673819.260	59.65
LOCATION L0000138	VOLUME	472445.888	3673820.041	59.84
LOCATION L0000139	VOLUME	472456.861	3673820.822	60.02
LOCATION L0000140	VOLUME	472467.833	3673821.604	60.28
LOCATION L0000141	VOLUME	472478.805	3673822.385	60.37
LOCATION L0000142	VOLUME	472489.777	3673823.166	60.43
LOCATION L0000143	VOLUME	472500.748	3673823.971	60.51
LOCATION L0000144	VOLUME	472511.716	3673824.809	60.53
LOCATION L0000145	VOLUME	472522.684	3673825.647	60.62
LOCATION L0000146	VOLUME	472533.652	3673826.486	60.70
LOCATION L0000147	VOLUME	472544.620	3673827.324	60.72
LOCATION L0000148	VOLUME	472555.588	3673828.162	60.86
LOCATION L0000149	VOLUME	472566.556	3673829.001	61.11
LOCATION L0000150	VOLUME	472577.524	3673829.839	61.42

LOCATION L0000151	VOLUME	472588.498	3673830.581	61.62
LOCATION L0000152	VOLUME	472599.477	3673831.273	61.83
LOCATION L0000153	VOLUME	472610.455	3673831.965	61.92
LOCATION L0000154	VOLUME	472621.433	3673832.657	62.00
LOCATION L0000155	VOLUME	472632.411	3673833.349	62.08
LOCATION L0000156	VOLUME	472643.390	3673834.041	62.17
LOCATION L0000157	VOLUME	472654.368	3673834.733	62.24
LOCATION L0000158	VOLUME	472665.346	3673835.425	62.34
LOCATION L0000159	VOLUME	472676.324	3673836.116	62.49
LOCATION L0000160	VOLUME	472687.288	3673837.000	62.61
LOCATION L0000161	VOLUME	472698.252	3673837.901	62.68
LOCATION L0000162	VOLUME	472709.215	3673838.802	62.92
LOCATION L0000163	VOLUME	472720.178	3673839.703	63.07
LOCATION L0000164	VOLUME	472731.141	3673840.605	63.29
LOCATION L0000165	VOLUME	472742.093	3673841.575	63.49
LOCATION L0000166	VOLUME	472752.849	3673843.879	63.50
LOCATION L0000167	VOLUME	472763.605	3673846.184	63.46
LOCATION L0000168	VOLUME	472774.361	3673848.489	63.62
LOCATION L0000169	VOLUME	472785.117	3673850.794	63.99
LOCATION L0000170	VOLUME	472795.873	3673853.099	64.03
LOCATION L0000171	VOLUME	472806.487	3673855.888	64.02
LOCATION L0000172	VOLUME	472816.793	3673859.733	64.19
LOCATION L0000173	VOLUME	472827.099	3673863.579	64.40
LOCATION L0000174	VOLUME	472837.405	3673867.424	64.33
LOCATION L0000175	VOLUME	472847.711	3673871.270	64.69
LOCATION L0000176	VOLUME	472858.017	3673875.115	64.67
LOCATION L0000177	VOLUME	472868.146	3673879.388	64.73
LOCATION L0000178	VOLUME	472878.149	3673883.963	65.01
LOCATION L0000179	VOLUME	472888.152	3673888.539	64.92
LOCATION L0000180	VOLUME	472898.155	3673893.114	65.35
LOCATION L0000181	VOLUME	472908.158	3673897.690	65.19
LOCATION L0000182	VOLUME	472918.162	3673902.265	65.29
LOCATION L0000183	VOLUME	472928.165	3673906.841	65.54
LOCATION L0000184	VOLUME	472938.168	3673911.416	65.67
LOCATION L0000185	VOLUME	472948.171	3673915.992	65.89
LOCATION L0000186	VOLUME	472958.174	3673920.568	65.75
LOCATION L0000187	VOLUME	472968.178	3673925.143	66.27
LOCATION L0000188	VOLUME	472978.181	3673929.719	66.06
LOCATION L0000189	VOLUME	472988.184	3673934.294	66.31
LOCATION L0000190	VOLUME	472998.187	3673938.870	66.35
LOCATION L0000191	VOLUME	473008.191	3673943.445	66.62
LOCATION L0000192	VOLUME	473018.194	3673948.021	66.85
LOCATION L0000193	VOLUME	473028.197	3673952.596	66.91
LOCATION L0000194	VOLUME	473038.200	3673957.172	67.00
LOCATION L0000195	VOLUME	473048.203	3673961.747	67.16
LOCATION L0000196	VOLUME	473058.207	3673966.323	67.06
LOCATION L0000197	VOLUME	473068.210	3673970.899	67.24
LOCATION L0000198	VOLUME	473078.213	3673975.474	67.16
LOCATION L0000199	VOLUME	473088.216	3673980.050	67.52
LOCATION L0000200	VOLUME	473098.220	3673984.625	67.45

LOCATION L0000201	VOLUME	473108.223	3673989.201	67.83
LOCATION L0000202	VOLUME	473118.226	3673993.776	68.04
LOCATION L0000203	VOLUME	473128.229	3673998.352	67.81
LOCATION L0000204	VOLUME	473138.232	3674002.927	67.98
LOCATION L0000205	VOLUME	473148.236	3674007.503	68.01
LOCATION L0000206	VOLUME	473158.239	3674012.079	68.50
LOCATION L0000207	VOLUME	473168.242	3674016.654	67.94
LOCATION L0000208	VOLUME	473178.245	3674021.230	68.44
LOCATION L0000209	VOLUME	473188.249	3674025.805	68.22
LOCATION L0000210	VOLUME	473198.252	3674030.381	68.38
LOCATION L0000211	VOLUME	473208.255	3674034.956	68.45
LOCATION L0000212	VOLUME	473218.258	3674039.532	68.59
LOCATION L0000213	VOLUME	473228.261	3674044.107	68.70
LOCATION L0000214	VOLUME	473238.265	3674048.683	68.61
LOCATION L0000215	VOLUME	473248.268	3674053.258	68.75
LOCATION L0000216	VOLUME	473258.271	3674057.834	68.67
LOCATION L0000217	VOLUME	473268.274	3674062.410	68.93
LOCATION L0000218	VOLUME	473278.277	3674066.985	68.90
LOCATION L0000219	VOLUME	473288.281	3674071.561	69.10
LOCATION L0000220	VOLUME	473298.284	3674076.136	69.10
LOCATION L0000221	VOLUME	473308.287	3674080.712	69.18
LOCATION L0000222	VOLUME	473318.290	3674085.287	69.37
LOCATION L0000223	VOLUME	473328.294	3674089.863	69.36
LOCATION L0000224	VOLUME	473338.297	3674094.437	69.52
LOCATION L0000225	VOLUME	473348.345	3674098.913	69.67
LOCATION L0000226	VOLUME	473358.393	3674103.390	69.81
LOCATION L0000227	VOLUME	473368.441	3674107.866	69.81
LOCATION L0000228	VOLUME	473378.489	3674112.343	70.00
LOCATION L0000229	VOLUME	473388.537	3674116.819	70.09
LOCATION L0000230	VOLUME	473398.585	3674121.296	70.19
LOCATION L0000231	VOLUME	473408.633	3674125.772	70.30
LOCATION L0000232	VOLUME	473418.681	3674130.249	70.46
LOCATION L0000233	VOLUME	473428.729	3674134.725	70.78
LOCATION L0000234	VOLUME	473438.777	3674139.202	70.87
LOCATION L0000235	VOLUME	473448.825	3674143.678	71.00
LOCATION L0000236	VOLUME	473458.873	3674148.155	71.07
LOCATION L0000237	VOLUME	473468.921	3674152.631	70.95
LOCATION L0000238	VOLUME	473478.969	3674157.108	71.11
LOCATION L0000239	VOLUME	473489.017	3674161.584	71.11
LOCATION L0000240	VOLUME	473499.064	3674166.061	71.32
LOCATION L0000241	VOLUME	473509.112	3674170.537	71.43
LOCATION L0000242	VOLUME	473519.160	3674175.014	71.50
LOCATION L0000243	VOLUME	473529.208	3674179.490	71.84
LOCATION L0000244	VOLUME	473539.256	3674183.967	71.88
LOCATION L0000245	VOLUME	473549.304	3674188.443	72.36
LOCATION L0000246	VOLUME	473559.352	3674192.920	72.26
LOCATION L0000247	VOLUME	473569.400	3674197.396	72.75
LOCATION L0000248	VOLUME	473579.448	3674201.873	72.70
LOCATION L0000249	VOLUME	473589.496	3674206.349	73.14
LOCATION L0000250	VOLUME	473599.544	3674210.826	73.23

LOCATION L0000251	VOLUME	473609.592	3674215.302	73.46
LOCATION L0000252	VOLUME	473619.207	3674220.602	73.45
LOCATION L0000253	VOLUME	473628.589	3674226.344	73.95
LOCATION L0000254	VOLUME	473637.972	3674232.085	73.77
LOCATION L0000255	VOLUME	473647.355	3674237.827	74.40
LOCATION L0000256	VOLUME	473656.737	3674243.569	74.08
LOCATION L0000257	VOLUME	473666.120	3674249.310	74.84
LOCATION L0000258	VOLUME	473675.458	3674255.123	74.55
LOCATION L0000259	VOLUME	473684.716	3674261.064	75.12
LOCATION L0000260	VOLUME	473693.974	3674267.004	75.18
LOCATION L0000261	VOLUME	473703.232	3674272.945	75.28
LOCATION L0000262	VOLUME	473712.490	3674278.885	75.67
LOCATION L0000263	VOLUME	473721.748	3674284.826	75.53
LOCATION L0000264	VOLUME	473731.006	3674290.766	75.98
LOCATION L0000265	VOLUME	473740.264	3674296.707	75.94
LOCATION L0000266	VOLUME	473749.522	3674302.647	76.32
LOCATION L0000267	VOLUME	473758.780	3674308.588	76.47
LOCATION L0000268	VOLUME	473768.038	3674314.528	76.60
LOCATION L0000269	VOLUME	473777.296	3674320.469	77.02
LOCATION L0000270	VOLUME	473786.965	3674325.709	76.90
LOCATION L0000271	VOLUME	473796.663	3674330.900	77.54
LOCATION L0000272	VOLUME	473806.361	3674336.092	77.19
LOCATION L0000273	VOLUME	473816.058	3674341.284	77.78
LOCATION L0000274	VOLUME	473825.756	3674346.475	77.51
LOCATION L0000275	VOLUME	473835.454	3674351.667	77.94
LOCATION L0000276	VOLUME	473845.151	3674356.859	77.82
LOCATION L0000277	VOLUME	473854.849	3674362.051	77.97
LOCATION L0000278	VOLUME	473864.547	3674367.242	78.09
LOCATION L0000279	VOLUME	473873.830	3674373.140	78.13
LOCATION L0000280	VOLUME	473883.087	3674379.082	78.49
LOCATION L0000281	VOLUME	473892.344	3674385.025	78.35
LOCATION L0000282	VOLUME	473901.600	3674390.967	78.85
LOCATION L0000283	VOLUME	473910.857	3674396.910	78.58
LOCATION L0000284	VOLUME	473920.114	3674402.852	79.10
LOCATION L0000285	VOLUME	473929.370	3674408.795	78.90
LOCATION L0000286	VOLUME	473938.766	3674414.491	79.18
LOCATION L0000287	VOLUME	473948.632	3674419.356	79.18
LOCATION L0000288	VOLUME	473958.497	3674424.222	79.32
LOCATION L0000289	VOLUME	473968.363	3674429.087	79.47
LOCATION L0000290	VOLUME	473978.228	3674433.952	79.43
LOCATION L0000291	VOLUME	473988.094	3674438.817	79.64
LOCATION L0000292	VOLUME	473997.960	3674443.683	79.84
LOCATION L0000293	VOLUME	474007.772	3674448.654	79.75
LOCATION L0000294	VOLUME	474017.562	3674453.668	80.20
LOCATION L0000295	VOLUME	474027.353	3674458.683	80.11
LOCATION L0000296	VOLUME	474037.157	3674463.662	80.75
LOCATION L0000297	VOLUME	474047.738	3674466.670	80.49
LOCATION L0000298	VOLUME	474058.319	3674469.678	80.71
LOCATION L0000299	VOLUME	474068.899	3674472.687	81.32
LOCATION L0000300	VOLUME	474079.480	3674475.695	81.19

LOCATION	L0000301	VOLUME	474090.061	3674478.703	81.33
LOCATION	L0000302	VOLUME	474100.641	3674481.711	82.01
LOCATION	L0000303	VOLUME	474111.222	3674484.719	82.24
LOCATION	L0000304	VOLUME	474121.803	3674487.728	82.07
LOCATION	L0000305	VOLUME	474132.521	3674490.131	82.26
LOCATION	L0000306	VOLUME	474143.364	3674491.983	82.61
LOCATION	L0000307	VOLUME	474154.207	3674493.834	83.25
LOCATION	L0000308	VOLUME	474165.062	3674495.603	83.32
LOCATION	L0000309	VOLUME	474175.971	3674497.019	83.21
LOCATION	L0000310	VOLUME	474186.879	3674498.436	83.36
LOCATION	L0000311	VOLUME	474197.787	3674499.853	83.53
LOCATION	L0000312	VOLUME	474208.696	3674501.269	83.82
LOCATION	L0000313	VOLUME	474219.604	3674502.686	84.34
LOCATION	L0000314	VOLUME	474230.513	3674504.103	84.79
LOCATION	L0000315	VOLUME	474241.390	3674505.738	84.88
LOCATION	L0000316	VOLUME	474252.267	3674507.379	84.69
LOCATION	L0000317	VOLUME	474263.144	3674509.021	84.50
LOCATION	L0000318	VOLUME	474274.021	3674510.663	84.67
LOCATION	L0000319	VOLUME	474284.800	3674512.824	85.49
LOCATION	L0000320	VOLUME	474295.533	3674515.233	85.85
LOCATION	L0000321	VOLUME	474306.266	3674517.642	85.35
LOCATION	L0000322	VOLUME	474316.999	3674520.052	85.32
LOCATION	L0000323	VOLUME	474327.449	3674523.410	86.26
LOCATION	L0000324	VOLUME	474337.749	3674527.272	86.19
LOCATION	L0000325	VOLUME	474348.048	3674531.134	86.32
LOCATION	L0000326	VOLUME	474358.348	3674534.997	87.44
LOCATION	L0000327	VOLUME	474368.647	3674538.859	86.59
LOCATION	L0000328	VOLUME	474378.336	3674544.036	87.55
LOCATION	L0000329	VOLUME	474387.925	3674549.425	87.42
LOCATION	L0000330	VOLUME	474397.515	3674554.813	88.09
LOCATION	L0000331	VOLUME	474407.105	3674560.202	88.00
LOCATION	L0000332	VOLUME	474416.695	3674565.590	88.73
LOCATION	L0000333	VOLUME	474426.284	3674570.979	88.50
LOCATION	L0000334	VOLUME	474435.874	3674576.367	89.26
LOCATION	L0000335	VOLUME	474445.464	3674581.756	88.91
LOCATION	L0000336	VOLUME	474455.054	3674587.145	89.59
LOCATION	L0000337	VOLUME	474464.643	3674592.533	89.34
LOCATION	L0000338	VOLUME	474474.233	3674597.922	89.75
LOCATION	L0000339	VOLUME	474483.823	3674603.310	89.65
LOCATION	L0000340	VOLUME	474493.413	3674608.699	89.83
LOCATION	L0000341	VOLUME	474503.003	3674614.087	90.13
LOCATION	L0000342	VOLUME	474512.592	3674619.476	90.06
LOCATION	L0000343	VOLUME	474522.182	3674624.864	90.69
LOCATION	L0000344	VOLUME	474531.772	3674630.253	90.52
LOCATION	L0000345	VOLUME	474541.362	3674635.641	91.29
LOCATION	L0000346	VOLUME	474550.951	3674641.030	91.20
LOCATION	L0000347	VOLUME	474561.008	3674645.370	91.53
LOCATION	L0000348	VOLUME	474571.427	3674648.900	92.02
LOCATION	L0000349	VOLUME	474581.845	3674652.431	91.48
LOCATION	L0000350	VOLUME	474592.263	3674655.961	92.40

LOCATION L0000351	VOLUME	474602.681	3674659.491	92.64
LOCATION L0000352	VOLUME	474613.099	3674663.021	92.29
LOCATION L0000353	VOLUME	474623.517	3674666.551	93.15
LOCATION L0000354	VOLUME	474633.936	3674670.081	93.39
LOCATION L0000355	VOLUME	474644.354	3674673.611	93.07
LOCATION L0000356	VOLUME	474654.772	3674677.141	93.90
LOCATION L0000357	VOLUME	474664.929	3674681.262	94.02
LOCATION L0000358	VOLUME	474674.555	3674686.587	94.08
LOCATION L0000359	VOLUME	474684.180	3674691.912	94.63
LOCATION L0000360	VOLUME	474693.805	3674697.236	94.58
LOCATION L0000361	VOLUME	474703.431	3674702.561	95.14
LOCATION L0000362	VOLUME	474713.056	3674707.886	95.15
LOCATION L0000363	VOLUME	474722.681	3674713.210	95.55
LOCATION L0000364	VOLUME	474732.307	3674718.535	95.82
LOCATION L0000365	VOLUME	474741.932	3674723.860	95.56
LOCATION L0000366	VOLUME	474749.400	3674731.674	95.94
LOCATION L0000367	VOLUME	474756.043	3674740.442	96.66
LOCATION L0000368	VOLUME	474762.685	3674749.210	96.78
LOCATION L0000369	VOLUME	474769.328	3674757.978	96.67
LOCATION L0000370	VOLUME	474775.970	3674766.746	96.72
LOCATION L0000371	VOLUME	474782.612	3674775.515	97.11
LOCATION L0000372	VOLUME	474788.879	3674784.458	96.96
LOCATION L0000373	VOLUME	474791.336	3674795.180	97.47
LOCATION L0000374	VOLUME	474793.793	3674805.902	97.40
LOCATION L0000375	VOLUME	474796.250	3674816.624	97.99
LOCATION L0000376	VOLUME	474798.843	3674827.309	97.96
LOCATION L0000377	VOLUME	474802.239	3674837.772	97.83
LOCATION L0000378	VOLUME	474805.635	3674848.234	98.46
LOCATION L0000379	VOLUME	474809.031	3674858.697	98.28
LOCATION L0000380	VOLUME	474812.426	3674869.160	98.31
LOCATION L0000381	VOLUME	474815.822	3674879.622	98.78
LOCATION L0000382	VOLUME	474819.218	3674890.085	98.40
LOCATION L0000383	VOLUME	474822.614	3674900.548	98.45
LOCATION L0000384	VOLUME	474826.010	3674911.011	98.95
LOCATION L0000385	VOLUME	474829.405	3674921.473	98.41
LOCATION L0000386	VOLUME	474833.525	3674931.647	98.95
LOCATION L0000387	VOLUME	474838.255	3674941.579	99.19
LOCATION L0000388	VOLUME	474842.984	3674951.510	99.42
LOCATION L0000389	VOLUME	474847.713	3674961.442	99.55
LOCATION L0000390	VOLUME	474852.822	3674971.181	99.93
LOCATION L0000391	VOLUME	474858.017	3674980.878	100.07
LOCATION L0000392	VOLUME	474863.211	3674990.574	100.18
LOCATION L0000393	VOLUME	474868.406	3675000.270	100.34
LOCATION L0000394	VOLUME	474873.600	3675009.966	100.63
LOCATION L0000395	VOLUME	474880.569	3675018.370	100.60
LOCATION L0000396	VOLUME	474888.205	3675026.289	100.78
LOCATION L0000397	VOLUME	474895.840	3675034.207	100.92
LOCATION L0000398	VOLUME	474903.475	3675042.125	101.10
LOCATION L0000399	VOLUME	474911.111	3675050.043	101.41
LOCATION L0000400	VOLUME	474918.746	3675057.962	101.67

LOCATION L0000401	VOLUME	474926.024	3675066.196	101.76
LOCATION L0000402	VOLUME	474932.936	3675074.753	101.85
LOCATION L0000403	VOLUME	474939.847	3675083.311	102.03
LOCATION L0000404	VOLUME	474946.759	3675091.868	102.32
LOCATION L0000405	VOLUME	474953.671	3675100.425	102.68
LOCATION L0000406	VOLUME	474960.629	3675108.944	102.79
LOCATION L0000407	VOLUME	474967.872	3675117.222	102.82
LOCATION L0000408	VOLUME	474975.116	3675125.501	103.62
LOCATION L0000409	VOLUME	474982.359	3675133.779	103.92

** End of LINE VOLUME Source ID = SPRNTRVL

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = BNSFTRVL

** DESCRSRC BNSF Rail Line Travel

** PREFIX

** Length of Side = 11.00

** Configuration = Adjacent

** Emission Rate = 1.0

** Vertical Dimension = 9.52

** SZINIT = 4.43

** Nodes = 39

** 474988.647,	3675143.128,	104.21,	4.76,	5.12
** 474949.251,	3675095.437,	102.40,	4.76,	5.12
** 474916.075,	3675055.004,	101.40,	4.76,	5.12
** 474876.678,	3675011.460,	100.64,	4.76,	5.12
** 474853.870,	3674965.843,	99.43,	4.76,	5.12
** 474830.025,	3674917.116,	97.09,	4.76,	5.12
** 474809.290,	3674850.764,	98.53,	4.76,	5.12
** 474795.812,	3674799.963,	97.08,	4.76,	5.12
** 474771.967,	3674753.309,	96.02,	4.76,	5.12
** 474732.570,	3674713.913,	95.16,	4.76,	5.12
** 474690.063,	3674685.921,	94.37,	4.76,	5.12
** 474600.903,	3674658.965,	92.16,	4.76,	5.12
** 474555.286,	3674642.377,	91.13,	4.76,	5.12
** 474518.999,	3674620.605,	90.41,	4.76,	5.12
** 474456.794,	3674587.429,	89.40,	4.76,	5.12
** 474407.030,	3674561.511,	88.27,	4.76,	5.12
** 474339.642,	3674530.408,	86.63,	4.76,	5.12
** 474262.922,	3674505.526,	83.97,	4.76,	5.12
** 474199.680,	3674498.269,	83.20,	4.76,	5.12
** 474137.475,	3674491.012,	82.43,	4.76,	5.12
** 474055.572,	3674472.350,	80.80,	4.76,	5.12
** 473960.191,	3674423.623,	79.26,	4.76,	5.12
** 473908.353,	3674399.778,	78.58,	4.76,	5.12
** 473690.697,	3674263.884,	74.85,	4.76,	5.12
** 473627.471,	3674219.900,	73.23,	4.76,	5.12
** 473509.265,	3674173.168,	71.27,	4.76,	5.12
** 473448.788,	3674137.431,	70.95,	4.76,	5.12
** 473292.097,	3674071.456,	69.03,	4.76,	5.12
** 473151.899,	3674008.229,	68.07,	4.76,	5.12

** 473025.447, 3673947.752, 66.72, 4.76, 5.12
 ** 472877.002, 3673892.773, 64.20, 4.76, 5.12
 ** 472786.286, 3673854.287, 64.04, 4.76, 5.12
 ** 472681.825, 3673835.044, 62.66, 4.76, 5.12
 ** 472475.653, 3673821.299, 60.41, 4.76, 5.12
 ** 472349.200, 3673815.801, 58.72, 4.76, 5.12
 ** 471330.834, 3673740.155, 47.71, 4.76, 5.12
 ** 471247.775, 3673721.923, 48.05, 4.76, 5.12
 ** 471081.656, 3673691.535, 46.25, 4.76, 5.12
 ** 471010.751, 3673677.354, 45.31, 4.76, 5.12

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LOCATION L0000410	VOLUME	474985.145	3675138.887	104.05
LOCATION L0000411	VOLUME	474978.139	3675130.407	103.84
LOCATION L0000412	VOLUME	474971.133	3675121.926	103.43
LOCATION L0000413	VOLUME	474964.128	3675113.446	102.73
LOCATION L0000414	VOLUME	474957.122	3675104.965	102.49
LOCATION L0000415	VOLUME	474950.116	3675096.485	102.31
LOCATION L0000416	VOLUME	474943.135	3675087.984	102.23
LOCATION L0000417	VOLUME	474936.158	3675079.480	102.18
LOCATION L0000418	VOLUME	474929.180	3675070.976	101.90
LOCATION L0000419	VOLUME	474922.203	3675062.472	101.60
LOCATION L0000420	VOLUME	474915.176	3675054.011	101.38
LOCATION L0000421	VOLUME	474907.796	3675045.854	101.23
LOCATION L0000422	VOLUME	474900.416	3675037.697	101.08
LOCATION L0000423	VOLUME	474893.036	3675029.540	100.84
LOCATION L0000424	VOLUME	474885.656	3675021.383	100.68
LOCATION L0000425	VOLUME	474878.276	3675013.226	100.51
LOCATION L0000426	VOLUME	474872.824	3675003.751	100.33
LOCATION L0000427	VOLUME	474867.905	3674993.913	100.21
LOCATION L0000428	VOLUME	474862.985	3674984.074	100.08
LOCATION L0000429	VOLUME	474858.066	3674974.235	99.76
LOCATION L0000430	VOLUME	474853.159	3674964.391	99.37
LOCATION L0000431	VOLUME	474848.324	3674954.510	99.15
LOCATION L0000432	VOLUME	474843.489	3674944.630	98.94
LOCATION L0000433	VOLUME	474838.654	3674934.749	98.11
LOCATION L0000434	VOLUME	474833.819	3674924.869	97.98
LOCATION L0000435	VOLUME	474829.318	3674914.855	97.88
LOCATION L0000436	VOLUME	474826.037	3674904.356	98.42
LOCATION L0000437	VOLUME	474822.756	3674893.857	98.05
LOCATION L0000438	VOLUME	474819.475	3674883.358	98.27
LOCATION L0000439	VOLUME	474816.194	3674872.858	98.54
LOCATION L0000440	VOLUME	474812.913	3674862.359	98.10
LOCATION L0000441	VOLUME	474809.632	3674851.860	98.34
LOCATION L0000442	VOLUME	474806.763	3674841.241	98.32
LOCATION L0000443	VOLUME	474803.942	3674830.609	97.56
LOCATION L0000444	VOLUME	474801.122	3674819.977	97.79
LOCATION L0000445	VOLUME	474798.301	3674809.345	97.66
LOCATION L0000446	VOLUME	474795.223	3674798.811	96.99
LOCATION L0000447	VOLUME	474790.217	3674789.016	97.43
LOCATION L0000448	VOLUME	474785.211	3674779.222	97.02

LOCATION L0000449	VOLUME	474780.204	3674769.427	96.73
LOCATION L0000450	VOLUME	474775.198	3674759.632	96.62
LOCATION L0000451	VOLUME	474769.209	3674750.552	96.32
LOCATION L0000452	VOLUME	474761.431	3674742.774	96.21
LOCATION L0000453	VOLUME	474753.653	3674734.996	96.07
LOCATION L0000454	VOLUME	474745.875	3674727.218	95.82
LOCATION L0000455	VOLUME	474738.097	3674719.439	95.57
LOCATION L0000456	VOLUME	474729.911	3674712.162	95.20
LOCATION L0000457	VOLUME	474720.724	3674706.112	95.25
LOCATION L0000458	VOLUME	474711.537	3674700.062	94.78
LOCATION L0000459	VOLUME	474702.350	3674694.012	94.37
LOCATION L0000460	VOLUME	474693.163	3674687.962	94.31
LOCATION L0000461	VOLUME	474683.087	3674683.811	93.66
LOCATION L0000462	VOLUME	474672.557	3674680.628	93.55
LOCATION L0000463	VOLUME	474662.028	3674677.445	94.16
LOCATION L0000464	VOLUME	474651.499	3674674.262	93.13
LOCATION L0000465	VOLUME	474640.969	3674671.078	93.01
LOCATION L0000466	VOLUME	474630.440	3674667.895	93.56
LOCATION L0000467	VOLUME	474619.911	3674664.712	92.54
LOCATION L0000468	VOLUME	474609.381	3674661.529	92.30
LOCATION L0000469	VOLUME	474598.889	3674658.233	92.86
LOCATION L0000470	VOLUME	474588.552	3674654.474	91.85
LOCATION L0000471	VOLUME	474578.214	3674650.715	91.57
LOCATION L0000472	VOLUME	474567.876	3674646.956	92.12
LOCATION L0000473	VOLUME	474557.538	3674643.196	91.03
LOCATION L0000474	VOLUME	474547.909	3674637.951	91.44
LOCATION L0000475	VOLUME	474538.476	3674632.292	90.42
LOCATION L0000476	VOLUME	474529.044	3674626.632	90.52
LOCATION L0000477	VOLUME	474519.612	3674620.973	89.72
LOCATION L0000478	VOLUME	474509.923	3674615.765	90.04
LOCATION L0000479	VOLUME	474500.218	3674610.588	89.44
LOCATION L0000480	VOLUME	474490.512	3674605.412	89.90
LOCATION L0000481	VOLUME	474480.806	3674600.235	89.36
LOCATION L0000482	VOLUME	474471.100	3674595.059	89.82
LOCATION L0000483	VOLUME	474461.394	3674589.882	89.28
LOCATION L0000484	VOLUME	474451.662	3674584.756	89.35
LOCATION L0000485	VOLUME	474441.906	3674579.675	88.94
LOCATION L0000486	VOLUME	474432.150	3674574.594	88.82
LOCATION L0000487	VOLUME	474422.394	3674569.512	88.61
LOCATION L0000488	VOLUME	474412.637	3674564.431	88.28
LOCATION L0000489	VOLUME	474402.783	3674559.550	88.23
LOCATION L0000490	VOLUME	474392.795	3674554.941	87.80
LOCATION L0000491	VOLUME	474382.808	3674550.331	87.68
LOCATION L0000492	VOLUME	474372.820	3674545.721	87.68
LOCATION L0000493	VOLUME	474362.833	3674541.112	86.95
LOCATION L0000494	VOLUME	474352.845	3674536.502	87.32
LOCATION L0000495	VOLUME	474342.858	3674531.892	86.44
LOCATION L0000496	VOLUME	474332.547	3674528.107	86.46
LOCATION L0000497	VOLUME	474322.084	3674524.714	86.64
LOCATION L0000498	VOLUME	474311.621	3674521.320	85.61

LOCATION L0000499	VOLUME	474301.157	3674517.927	85.58
LOCATION L0000500	VOLUME	474290.694	3674514.533	86.04
LOCATION L0000501	VOLUME	474280.230	3674511.140	84.93
LOCATION L0000502	VOLUME	474269.767	3674507.746	84.17
LOCATION L0000503	VOLUME	474259.143	3674505.092	84.34
LOCATION L0000504	VOLUME	474248.214	3674503.838	84.62
LOCATION L0000505	VOLUME	474237.286	3674502.584	84.49
LOCATION L0000506	VOLUME	474226.358	3674501.330	84.27
LOCATION L0000507	VOLUME	474215.429	3674500.076	83.91
LOCATION L0000508	VOLUME	474204.501	3674498.822	83.57
LOCATION L0000509	VOLUME	474193.574	3674497.556	83.39
LOCATION L0000510	VOLUME	474182.648	3674496.282	83.29
LOCATION L0000511	VOLUME	474171.722	3674495.007	83.38
LOCATION L0000512	VOLUME	474160.796	3674493.732	83.40
LOCATION L0000513	VOLUME	474149.871	3674492.458	82.94
LOCATION L0000514	VOLUME	474138.945	3674491.183	82.44
LOCATION L0000515	VOLUME	474128.193	3674488.897	82.16
LOCATION L0000516	VOLUME	474117.467	3674486.453	82.07
LOCATION L0000517	VOLUME	474106.742	3674484.009	82.30
LOCATION L0000518	VOLUME	474096.017	3674481.565	81.77
LOCATION L0000519	VOLUME	474085.292	3674479.122	81.27
LOCATION L0000520	VOLUME	474074.567	3674476.678	81.28
LOCATION L0000521	VOLUME	474063.842	3674474.234	81.39
LOCATION L0000522	VOLUME	474053.329	3674471.204	80.64
LOCATION L0000523	VOLUME	474043.534	3674466.200	80.61
LOCATION L0000524	VOLUME	474033.738	3674461.196	80.40
LOCATION L0000525	VOLUME	474023.942	3674456.191	80.01
LOCATION L0000526	VOLUME	474014.146	3674451.187	80.15
LOCATION L0000527	VOLUME	474004.351	3674446.183	79.56
LOCATION L0000528	VOLUME	473994.555	3674441.178	79.82
LOCATION L0000529	VOLUME	473984.759	3674436.174	79.46
LOCATION L0000530	VOLUME	473974.964	3674431.170	79.51
LOCATION L0000531	VOLUME	473965.168	3674426.165	79.23
LOCATION L0000532	VOLUME	473955.275	3674421.361	79.41
LOCATION L0000533	VOLUME	473945.281	3674416.764	78.97
LOCATION L0000534	VOLUME	473935.288	3674412.167	79.37
LOCATION L0000535	VOLUME	473925.295	3674407.571	78.82
LOCATION L0000536	VOLUME	473915.301	3674402.974	79.03
LOCATION L0000537	VOLUME	473905.510	3674398.002	78.61
LOCATION L0000538	VOLUME	473896.179	3674392.177	78.69
LOCATION L0000539	VOLUME	473886.848	3674386.351	78.49
LOCATION L0000540	VOLUME	473877.518	3674380.525	78.34
LOCATION L0000541	VOLUME	473868.187	3674374.700	78.37
LOCATION L0000542	VOLUME	473858.856	3674368.874	77.99
LOCATION L0000543	VOLUME	473849.526	3674363.048	78.27
LOCATION L0000544	VOLUME	473840.195	3674357.223	77.74
LOCATION L0000545	VOLUME	473830.864	3674351.397	78.10
LOCATION L0000546	VOLUME	473821.534	3674345.571	77.51
LOCATION L0000547	VOLUME	473812.203	3674339.746	77.62
LOCATION L0000548	VOLUME	473802.872	3674333.920	77.26

LOCATION L0000549	VOLUME	473793.541	3674328.094	77.12
LOCATION L0000550	VOLUME	473784.211	3674322.269	76.99
LOCATION L0000551	VOLUME	473774.880	3674316.443	76.63
LOCATION L0000552	VOLUME	473765.549	3674310.618	76.71
LOCATION L0000553	VOLUME	473756.219	3674304.792	76.17
LOCATION L0000554	VOLUME	473746.888	3674298.966	76.33
LOCATION L0000555	VOLUME	473737.557	3674293.141	75.72
LOCATION L0000556	VOLUME	473728.227	3674287.315	75.86
LOCATION L0000557	VOLUME	473718.896	3674281.489	75.48
LOCATION L0000558	VOLUME	473709.565	3674275.664	75.34
LOCATION L0000559	VOLUME	473700.234	3674269.838	75.39
LOCATION L0000560	VOLUME	473690.904	3674264.012	74.89
LOCATION L0000561	VOLUME	473681.867	3674257.741	75.10
LOCATION L0000562	VOLUME	473672.837	3674251.459	74.37
LOCATION L0000563	VOLUME	473663.807	3674245.177	74.63
LOCATION L0000564	VOLUME	473654.777	3674238.896	73.96
LOCATION L0000565	VOLUME	473645.747	3674232.614	74.15
LOCATION L0000566	VOLUME	473636.717	3674226.332	73.80
LOCATION L0000567	VOLUME	473627.687	3674220.050	73.63
LOCATION L0000568	VOLUME	473617.487	3674215.953	73.61
LOCATION L0000569	VOLUME	473607.257	3674211.908	73.11
LOCATION L0000570	VOLUME	473597.027	3674207.864	73.31
LOCATION L0000571	VOLUME	473586.798	3674203.820	73.04
LOCATION L0000572	VOLUME	473576.568	3674199.776	72.68
LOCATION L0000573	VOLUME	473566.339	3674195.731	72.60
LOCATION L0000574	VOLUME	473556.109	3674191.687	72.28
LOCATION L0000575	VOLUME	473545.880	3674187.643	72.29
LOCATION L0000576	VOLUME	473535.650	3674183.599	71.78
LOCATION L0000577	VOLUME	473525.421	3674179.554	71.85
LOCATION L0000578	VOLUME	473515.191	3674175.510	71.41
LOCATION L0000579	VOLUME	473505.281	3674170.813	71.34
LOCATION L0000580	VOLUME	473495.811	3674165.217	71.20
LOCATION L0000581	VOLUME	473486.340	3674159.621	71.15
LOCATION L0000582	VOLUME	473476.870	3674154.025	70.96
LOCATION L0000583	VOLUME	473467.400	3674148.429	70.96
LOCATION L0000584	VOLUME	473457.930	3674142.833	71.05
LOCATION L0000585	VOLUME	473448.437	3674137.283	70.93
LOCATION L0000586	VOLUME	473438.299	3674133.014	70.87
LOCATION L0000587	VOLUME	473428.161	3674128.746	70.74
LOCATION L0000588	VOLUME	473418.023	3674124.477	70.43
LOCATION L0000589	VOLUME	473407.885	3674120.208	70.05
LOCATION L0000590	VOLUME	473397.747	3674115.940	70.22
LOCATION L0000591	VOLUME	473387.609	3674111.671	69.83
LOCATION L0000592	VOLUME	473377.471	3674107.403	69.92
LOCATION L0000593	VOLUME	473367.333	3674103.134	69.69
LOCATION L0000594	VOLUME	473357.195	3674098.865	69.72
LOCATION L0000595	VOLUME	473347.057	3674094.597	69.53
LOCATION L0000596	VOLUME	473336.919	3674090.328	69.44
LOCATION L0000597	VOLUME	473326.781	3674086.059	69.43
LOCATION L0000598	VOLUME	473316.643	3674081.791	69.26

LOCATION L0000599	VOLUME	473306.505	3674077.522	69.19
LOCATION L0000600	VOLUME	473296.367	3674073.254	69.00
LOCATION L0000601	VOLUME	473286.293	3674068.838	69.07
LOCATION L0000602	VOLUME	473276.265	3674064.316	68.89
LOCATION L0000603	VOLUME	473266.238	3674059.794	68.88
LOCATION L0000604	VOLUME	473256.210	3674055.272	68.78
LOCATION L0000605	VOLUME	473246.183	3674050.749	68.72
LOCATION L0000606	VOLUME	473236.155	3674046.227	68.61
LOCATION L0000607	VOLUME	473226.128	3674041.705	68.66
LOCATION L0000608	VOLUME	473216.101	3674037.183	68.51
LOCATION L0000609	VOLUME	473206.073	3674032.661	68.47
LOCATION L0000610	VOLUME	473196.046	3674028.138	68.33
LOCATION L0000611	VOLUME	473186.018	3674023.616	68.29
LOCATION L0000612	VOLUME	473175.991	3674019.094	68.39
LOCATION L0000613	VOLUME	473165.963	3674014.572	68.08
LOCATION L0000614	VOLUME	473155.936	3674010.050	68.34
LOCATION L0000615	VOLUME	473145.970	3674005.394	67.87
LOCATION L0000616	VOLUME	473136.047	3674000.648	68.04
LOCATION L0000617	VOLUME	473126.124	3673995.902	67.71
LOCATION L0000618	VOLUME	473116.200	3673991.156	68.07
LOCATION L0000619	VOLUME	473106.277	3673986.410	67.62
LOCATION L0000620	VOLUME	473096.353	3673981.664	67.48
LOCATION L0000621	VOLUME	473086.430	3673976.918	67.37
LOCATION L0000622	VOLUME	473076.506	3673972.172	67.28
LOCATION L0000623	VOLUME	473066.583	3673967.426	67.20
LOCATION L0000624	VOLUME	473056.659	3673962.680	67.13
LOCATION L0000625	VOLUME	473046.736	3673957.934	67.13
LOCATION L0000626	VOLUME	473036.812	3673953.188	66.99
LOCATION L0000627	VOLUME	473026.889	3673948.442	66.89
LOCATION L0000628	VOLUME	473016.630	3673944.487	66.80
LOCATION L0000629	VOLUME	473006.315	3673940.666	66.50
LOCATION L0000630	VOLUME	472996.000	3673936.846	66.39
LOCATION L0000631	VOLUME	472985.685	3673933.025	66.34
LOCATION L0000632	VOLUME	472975.370	3673929.205	66.03
LOCATION L0000633	VOLUME	472965.054	3673925.384	66.02
LOCATION L0000634	VOLUME	472954.739	3673921.564	65.79
LOCATION L0000635	VOLUME	472944.424	3673917.744	65.63
LOCATION L0000636	VOLUME	472934.109	3673913.923	65.13
LOCATION L0000637	VOLUME	472923.793	3673910.103	65.19
LOCATION L0000638	VOLUME	472913.478	3673906.282	64.63
LOCATION L0000639	VOLUME	472903.163	3673902.462	64.93
LOCATION L0000640	VOLUME	472892.848	3673898.641	64.12
LOCATION L0000641	VOLUME	472882.532	3673894.821	64.14
LOCATION L0000642	VOLUME	472872.305	3673890.780	64.22
LOCATION L0000643	VOLUME	472862.178	3673886.484	63.48
LOCATION L0000644	VOLUME	472852.052	3673882.188	64.03
LOCATION L0000645	VOLUME	472841.926	3673877.892	63.87
LOCATION L0000646	VOLUME	472831.799	3673873.595	63.61
LOCATION L0000647	VOLUME	472821.673	3673869.299	63.99
LOCATION L0000648	VOLUME	472811.546	3673865.003	64.07

LOCATION L0000649	VOLUME	472801.420	3673860.707	63.69
LOCATION L0000650	VOLUME	472791.294	3673856.411	63.78
LOCATION L0000651	VOLUME	472780.818	3673853.280	63.86
LOCATION L0000652	VOLUME	472770.000	3673851.287	63.51
LOCATION L0000653	VOLUME	472759.182	3673849.294	63.28
LOCATION L0000654	VOLUME	472748.364	3673847.301	63.24
LOCATION L0000655	VOLUME	472737.546	3673845.308	63.25
LOCATION L0000656	VOLUME	472726.728	3673843.316	63.21
LOCATION L0000657	VOLUME	472715.910	3673841.323	63.21
LOCATION L0000658	VOLUME	472705.092	3673839.330	62.84
LOCATION L0000659	VOLUME	472694.274	3673837.337	62.65
LOCATION L0000660	VOLUME	472683.456	3673835.345	62.66
LOCATION L0000661	VOLUME	472672.504	3673834.423	62.49
LOCATION L0000662	VOLUME	472661.528	3673833.691	62.40
LOCATION L0000663	VOLUME	472650.553	3673832.959	62.33
LOCATION L0000664	VOLUME	472639.577	3673832.228	62.27
LOCATION L0000665	VOLUME	472628.601	3673831.496	62.19
LOCATION L0000666	VOLUME	472617.626	3673830.764	61.96
LOCATION L0000667	VOLUME	472606.650	3673830.033	61.72
LOCATION L0000668	VOLUME	472595.674	3673829.301	61.53
LOCATION L0000669	VOLUME	472584.699	3673828.569	61.41
LOCATION L0000670	VOLUME	472573.723	3673827.837	61.22
LOCATION L0000671	VOLUME	472562.747	3673827.106	60.98
LOCATION L0000672	VOLUME	472551.772	3673826.374	60.82
LOCATION L0000673	VOLUME	472540.796	3673825.642	60.77
LOCATION L0000674	VOLUME	472529.821	3673824.911	60.76
LOCATION L0000675	VOLUME	472518.845	3673824.179	60.66
LOCATION L0000676	VOLUME	472507.869	3673823.447	60.60
LOCATION L0000677	VOLUME	472496.894	3673822.715	60.56
LOCATION L0000678	VOLUME	472485.918	3673821.984	60.48
LOCATION L0000679	VOLUME	472474.941	3673821.268	60.35
LOCATION L0000680	VOLUME	472463.952	3673820.791	60.09
LOCATION L0000681	VOLUME	472452.962	3673820.313	59.92
LOCATION L0000682	VOLUME	472441.973	3673819.835	59.79
LOCATION L0000683	VOLUME	472430.983	3673819.357	59.58
LOCATION L0000684	VOLUME	472419.993	3673818.879	59.30
LOCATION L0000685	VOLUME	472409.004	3673818.402	59.09
LOCATION L0000686	VOLUME	472398.014	3673817.924	58.97
LOCATION L0000687	VOLUME	472387.024	3673817.446	58.87
LOCATION L0000688	VOLUME	472376.035	3673816.968	58.77
LOCATION L0000689	VOLUME	472365.045	3673816.490	58.65
LOCATION L0000690	VOLUME	472354.056	3673816.013	58.48
LOCATION L0000691	VOLUME	472343.077	3673815.347	58.37
LOCATION L0000692	VOLUME	472332.107	3673814.532	58.39
LOCATION L0000693	VOLUME	472321.138	3673813.717	58.21
LOCATION L0000694	VOLUME	472310.168	3673812.902	58.16
LOCATION L0000695	VOLUME	472299.198	3673812.087	58.19
LOCATION L0000696	VOLUME	472288.228	3673811.272	58.04
LOCATION L0000697	VOLUME	472277.258	3673810.457	57.64
LOCATION L0000698	VOLUME	472266.289	3673809.643	57.38

LOCATION L0000699	VOLUME	472255.319	3673808.828	57.26
LOCATION L0000700	VOLUME	472244.349	3673808.013	57.21
LOCATION L0000701	VOLUME	472233.379	3673807.198	57.14
LOCATION L0000702	VOLUME	472222.410	3673806.383	57.06
LOCATION L0000703	VOLUME	472211.440	3673805.568	56.99
LOCATION L0000704	VOLUME	472200.470	3673804.753	56.89
LOCATION L0000705	VOLUME	472189.500	3673803.939	56.85
LOCATION L0000706	VOLUME	472178.530	3673803.124	56.80
LOCATION L0000707	VOLUME	472167.561	3673802.309	56.76
LOCATION L0000708	VOLUME	472156.591	3673801.494	56.55
LOCATION L0000709	VOLUME	472145.621	3673800.679	56.05
LOCATION L0000710	VOLUME	472134.651	3673799.864	55.63
LOCATION L0000711	VOLUME	472123.682	3673799.049	55.85
LOCATION L0000712	VOLUME	472112.712	3673798.235	55.71
LOCATION L0000713	VOLUME	472101.742	3673797.420	55.65
LOCATION L0000714	VOLUME	472090.772	3673796.605	55.57
LOCATION L0000715	VOLUME	472079.802	3673795.790	55.47
LOCATION L0000716	VOLUME	472068.833	3673794.975	55.42
LOCATION L0000717	VOLUME	472057.863	3673794.160	55.33
LOCATION L0000718	VOLUME	472046.893	3673793.345	55.23
LOCATION L0000719	VOLUME	472035.923	3673792.531	55.16
LOCATION L0000720	VOLUME	472024.954	3673791.716	55.08
LOCATION L0000721	VOLUME	472013.984	3673790.901	54.87
LOCATION L0000722	VOLUME	472003.014	3673790.086	54.60
LOCATION L0000723	VOLUME	471992.044	3673789.271	54.26
LOCATION L0000724	VOLUME	471981.074	3673788.456	54.13
LOCATION L0000725	VOLUME	471970.105	3673787.641	54.08
LOCATION L0000726	VOLUME	471959.135	3673786.827	54.03
LOCATION L0000727	VOLUME	471948.165	3673786.012	53.98
LOCATION L0000728	VOLUME	471937.195	3673785.197	53.96
LOCATION L0000729	VOLUME	471926.226	3673784.382	53.93
LOCATION L0000730	VOLUME	471915.256	3673783.567	53.89
LOCATION L0000731	VOLUME	471904.286	3673782.752	53.89
LOCATION L0000732	VOLUME	471893.316	3673781.937	53.92
LOCATION L0000733	VOLUME	471882.346	3673781.123	53.82
LOCATION L0000734	VOLUME	471871.377	3673780.308	53.65
LOCATION L0000735	VOLUME	471860.407	3673779.493	53.56
LOCATION L0000736	VOLUME	471849.437	3673778.678	53.39
LOCATION L0000737	VOLUME	471838.467	3673777.863	53.32
LOCATION L0000738	VOLUME	471827.498	3673777.048	53.41
LOCATION L0000739	VOLUME	471816.528	3673776.233	53.46
LOCATION L0000740	VOLUME	471805.558	3673775.419	53.51
LOCATION L0000741	VOLUME	471794.588	3673774.604	53.56
LOCATION L0000742	VOLUME	471783.618	3673773.789	53.61
LOCATION L0000743	VOLUME	471772.649	3673772.974	53.66
LOCATION L0000744	VOLUME	471761.679	3673772.159	53.69
LOCATION L0000745	VOLUME	471750.709	3673771.344	53.58
LOCATION L0000746	VOLUME	471739.739	3673770.529	53.53
LOCATION L0000747	VOLUME	471728.770	3673769.715	53.40
LOCATION L0000748	VOLUME	471717.800	3673768.900	53.28

LOCATION L0000749	VOLUME	471706.830	3673768.085	53.13
LOCATION L0000750	VOLUME	471695.860	3673767.270	53.05
LOCATION L0000751	VOLUME	471684.890	3673766.455	53.04
LOCATION L0000752	VOLUME	471673.921	3673765.640	53.00
LOCATION L0000753	VOLUME	471662.951	3673764.826	52.93
LOCATION L0000754	VOLUME	471651.981	3673764.011	52.82
LOCATION L0000755	VOLUME	471641.011	3673763.196	52.66
LOCATION L0000756	VOLUME	471630.042	3673762.381	52.50
LOCATION L0000757	VOLUME	471619.072	3673761.566	52.27
LOCATION L0000758	VOLUME	471608.102	3673760.751	51.98
LOCATION L0000759	VOLUME	471597.132	3673759.936	51.60
LOCATION L0000760	VOLUME	471586.162	3673759.122	51.28
LOCATION L0000761	VOLUME	471575.193	3673758.307	50.98
LOCATION L0000762	VOLUME	471564.223	3673757.492	50.69
LOCATION L0000763	VOLUME	471553.253	3673756.677	50.56
LOCATION L0000764	VOLUME	471542.283	3673755.862	50.46
LOCATION L0000765	VOLUME	471531.314	3673755.047	50.32
LOCATION L0000766	VOLUME	471520.344	3673754.232	50.15
LOCATION L0000767	VOLUME	471509.374	3673753.418	50.03
LOCATION L0000768	VOLUME	471498.404	3673752.603	49.86
LOCATION L0000769	VOLUME	471487.434	3673751.788	49.77
LOCATION L0000770	VOLUME	471476.465	3673750.973	49.70
LOCATION L0000771	VOLUME	471465.495	3673750.158	49.64
LOCATION L0000772	VOLUME	471454.525	3673749.343	49.40
LOCATION L0000773	VOLUME	471443.555	3673748.528	48.95
LOCATION L0000774	VOLUME	471432.586	3673747.714	48.60
LOCATION L0000775	VOLUME	471421.616	3673746.899	48.53
LOCATION L0000776	VOLUME	471410.646	3673746.084	48.51
LOCATION L0000777	VOLUME	471399.676	3673745.269	48.51
LOCATION L0000778	VOLUME	471388.706	3673744.454	48.51
LOCATION L0000779	VOLUME	471377.737	3673743.639	48.57
LOCATION L0000780	VOLUME	471366.767	3673742.824	48.54
LOCATION L0000781	VOLUME	471355.797	3673742.010	48.17
LOCATION L0000782	VOLUME	471344.827	3673741.195	47.89
LOCATION L0000783	VOLUME	471333.858	3673740.380	47.82
LOCATION L0000784	VOLUME	471323.051	3673738.447	47.83
LOCATION L0000785	VOLUME	471312.307	3673736.088	47.92
LOCATION L0000786	VOLUME	471301.563	3673733.730	48.14
LOCATION L0000787	VOLUME	471290.819	3673731.371	47.84
LOCATION L0000788	VOLUME	471280.074	3673729.013	47.77
LOCATION L0000789	VOLUME	471269.330	3673726.654	47.82
LOCATION L0000790	VOLUME	471258.586	3673724.296	47.98
LOCATION L0000791	VOLUME	471247.842	3673721.937	48.15
LOCATION L0000792	VOLUME	471237.022	3673719.956	47.79
LOCATION L0000793	VOLUME	471226.201	3673717.976	47.67
LOCATION L0000794	VOLUME	471215.381	3673715.997	47.62
LOCATION L0000795	VOLUME	471204.561	3673714.018	47.63
LOCATION L0000796	VOLUME	471193.740	3673712.038	47.70
LOCATION L0000797	VOLUME	471182.920	3673710.059	47.23
LOCATION L0000798	VOLUME	471172.099	3673708.080	46.98

LOCATION	L0000799	VOLUME	471161.279	3673706.100	46.91
LOCATION	L0000800	VOLUME	471150.458	3673704.121	46.98
LOCATION	L0000801	VOLUME	471139.638	3673702.141	46.97
LOCATION	L0000802	VOLUME	471128.817	3673700.162	46.40
LOCATION	L0000803	VOLUME	471117.997	3673698.183	46.23
LOCATION	L0000804	VOLUME	471107.177	3673696.203	46.14
LOCATION	L0000805	VOLUME	471096.356	3673694.224	46.26
LOCATION	L0000806	VOLUME	471085.536	3673692.245	46.20
LOCATION	L0000807	VOLUME	471074.737	3673690.151	46.23
LOCATION	L0000808	VOLUME	471063.951	3673687.994	46.13
LOCATION	L0000809	VOLUME	471053.164	3673685.837	45.93
LOCATION	L0000810	VOLUME	471042.378	3673683.679	45.66
LOCATION	L0000811	VOLUME	471031.591	3673681.522	45.42
LOCATION	L0000812	VOLUME	471020.805	3673679.365	45.29

** End of LINE VOLUME Source ID = BNSFTRVL

** Source Parameters **

SRCPARAM	SPRNIDLEEB1	1.0	4.760	385.450	4.83	0.5599176
SRCPARAM	SPRNIDLEWB1	1.0	4.760	385.450	4.83	0.5599176
SRCPARAM	SPRINIDLEEB2	1.0	4.760	385.450	4.83	0.5599176
SRCPARAM	SPRINIDLEWB2	1.0	4.760	385.450	4.83	0.5599176

** LINE VOLUME Source ID = SPRNTRVL

SRCPARAM	L0000001	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000002	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000003	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000004	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000005	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000006	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000007	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000008	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000009	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000010	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000011	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000012	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000013	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000014	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000015	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000016	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000017	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000018	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000019	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000020	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000021	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000022	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000023	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000024	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000025	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000026	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000027	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000028	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000029	0.0024449878	4.76	5.12	4.43

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

SRCPARAM	L0000380	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000381	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000382	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000383	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000384	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000385	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000386	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000387	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000388	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000389	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000390	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000391	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000392	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000393	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000394	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000395	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000396	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000397	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000398	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000399	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000400	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000401	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000402	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000403	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000404	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000405	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000406	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000407	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000408	0.0024449878	4.76	5.12	4.43
SRCPARAM	L0000409	0.0024449878	4.76	5.12	4.43

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** LINE VOLUME Source ID = BNSFTRVL

SRCPARAM	L0000410	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000411	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000412	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000413	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000414	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000415	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000416	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000417	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000418	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000419	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000420	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000421	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000422	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000423	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000424	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000425	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000426	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000427	0.0024813896	4.76	5.12	4.43

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

SRCPARAM	L0000778	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000779	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000780	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000781	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000782	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000783	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000784	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000785	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000786	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000787	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000788	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000789	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000790	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000791	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000792	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000793	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000794	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000795	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000796	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000797	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000798	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000799	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000800	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000801	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000802	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000803	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000804	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000805	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000806	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000807	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000808	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000809	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000810	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000811	0.0024813896	4.76	5.12	4.43
SRCPARAM	L0000812	0.0024813896	4.76	5.12	4.43

**

 URBANSRC ALL

SRCGROUP	SRCGP1	L0000410	L0000411	L0000412	L0000413	L0000414	L0000415
SRCGROUP	SRCGP1	L0000416	L0000417	L0000418	L0000419	L0000420	L0000421
SRCGROUP	SRCGP1	L0000422	L0000423	L0000424	L0000425	L0000426	L0000427
SRCGROUP	SRCGP1	L0000428	L0000429	L0000430	L0000431	L0000432	L0000433
SRCGROUP	SRCGP1	L0000434	L0000435	L0000436	L0000437	L0000438	L0000439
SRCGROUP	SRCGP1	L0000440	L0000441	L0000442	L0000443	L0000444	L0000445
SRCGROUP	SRCGP1	L0000446	L0000447	L0000448	L0000449	L0000450	L0000451
SRCGROUP	SRCGP1	L0000452	L0000453	L0000454	L0000455	L0000456	L0000457
SRCGROUP	SRCGP1	L0000458	L0000459	L0000460	L0000461	L0000462	L0000463
SRCGROUP	SRCGP1	L0000464	L0000465	L0000466	L0000467	L0000468	L0000469
SRCGROUP	SRCGP1	L0000470	L0000471	L0000472	L0000473	L0000474	L0000475
SRCGROUP	SRCGP1	L0000476	L0000477	L0000478	L0000479	L0000480	L0000481
SRCGROUP	SRCGP1	L0000482	L0000483	L0000484	L0000485	L0000486	L0000487

SRCGROUP	SRCGP1	L0000488	L0000489	L0000490	L0000491	L0000492	L0000493
SRCGROUP	SRCGP1	L0000494	L0000495	L0000496	L0000497	L0000498	L0000499
SRCGROUP	SRCGP1	L0000500	L0000501	L0000502	L0000503	L0000504	L0000505
SRCGROUP	SRCGP1	L0000506	L0000507	L0000508	L0000509	L0000510	L0000511
SRCGROUP	SRCGP1	L0000512	L0000513	L0000514	L0000515	L0000516	L0000517
SRCGROUP	SRCGP1	L0000518	L0000519	L0000520	L0000521	L0000522	L0000523
SRCGROUP	SRCGP1	L0000524	L0000525	L0000526	L0000527	L0000528	L0000529
SRCGROUP	SRCGP1	L0000530	L0000531	L0000532	L0000533	L0000534	L0000535
SRCGROUP	SRCGP1	L0000536	L0000537	L0000538	L0000539	L0000540	L0000541
SRCGROUP	SRCGP1	L0000542	L0000543	L0000544	L0000545	L0000546	L0000547
SRCGROUP	SRCGP1	L0000548	L0000549	L0000550	L0000551	L0000552	L0000553
SRCGROUP	SRCGP1	L0000554	L0000555	L0000556	L0000557	L0000558	L0000559
SRCGROUP	SRCGP1	L0000560	L0000561	L0000562	L0000563	L0000564	L0000565
SRCGROUP	SRCGP1	L0000566	L0000567	L0000568	L0000569	L0000570	L0000571
SRCGROUP	SRCGP1	L0000572	L0000573	L0000574	L0000575	L0000576	L0000577
SRCGROUP	SRCGP1	L0000578	L0000579	L0000580	L0000581	L0000582	L0000583
SRCGROUP	SRCGP1	L0000584	L0000585	L0000586	L0000587	L0000588	L0000589
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SRCGROUP	SRCGP1	L0000596	L0000597	L0000598	L0000599	L0000600	L0000601
SRCGROUP	SRCGP1	L0000602	L0000603	L0000604	L0000605	L0000606	L0000607
SRCGROUP	SRCGP1	L0000608	L0000609	L0000610	L0000611	L0000612	L0000613
SRCGROUP	SRCGP1	L0000614	L0000615	L0000616	L0000617	L0000618	L0000619
SRCGROUP	SRCGP1	L0000620	L0000621	L0000622	L0000623	L0000624	L0000625
SRCGROUP	SRCGP1	L0000626	L0000627	L0000628	L0000629	L0000630	L0000631
SRCGROUP	SRCGP1	L0000632	L0000633	L0000634	L0000635	L0000636	L0000637
SRCGROUP	SRCGP1	L0000638	L0000639	L0000640	L0000641	L0000642	L0000643
SRCGROUP	SRCGP1	L0000644	L0000645	L0000646	L0000647	L0000648	L0000649
SRCGROUP	SRCGP1	L0000650	L0000651	L0000652	L0000653	L0000654	L0000655
SRCGROUP	SRCGP1	L0000656	L0000657	L0000658	L0000659	L0000660	L0000661
SRCGROUP	SRCGP1	L0000662	L0000663	L0000664	L0000665	L0000666	L0000667
SRCGROUP	SRCGP1	L0000668	L0000669	L0000670	L0000671	L0000672	L0000673
SRCGROUP	SRCGP1	L0000674	L0000675	L0000676	L0000677	L0000678	L0000679
SRCGROUP	SRCGP1	L0000680	L0000681	L0000682	L0000683	L0000684	L0000685
SRCGROUP	SRCGP1	L0000686	L0000687	L0000688	L0000689	L0000690	L0000691
SRCGROUP	SRCGP1	L0000692	L0000693	L0000694	L0000695	L0000696	L0000697
SRCGROUP	SRCGP1	L0000698	L0000699	L0000700	L0000701	L0000702	L0000703
SRCGROUP	SRCGP1	L0000704	L0000705	L0000706	L0000707	L0000708	L0000709
SRCGROUP	SRCGP1	L0000710	L0000711	L0000712	L0000713	L0000714	L0000715
SRCGROUP	SRCGP1	L0000716	L0000717	L0000718	L0000719	L0000720	L0000721
SRCGROUP	SRCGP1	L0000722	L0000723	L0000724	L0000725	L0000726	L0000727
SRCGROUP	SRCGP1	L0000728	L0000729	L0000730	L0000731	L0000732	L0000733
SRCGROUP	SRCGP1	L0000734	L0000735	L0000736	L0000737	L0000738	L0000739
SRCGROUP	SRCGP1	L0000740	L0000741	L0000742	L0000743	L0000744	L0000745
SRCGROUP	SRCGP1	L0000746	L0000747	L0000748	L0000749	L0000750	L0000751
SRCGROUP	SRCGP1	L0000752	L0000753	L0000754	L0000755	L0000756	L0000757
SRCGROUP	SRCGP1	L0000758	L0000759	L0000760	L0000761	L0000762	L0000763
SRCGROUP	SRCGP1	L0000764	L0000765	L0000766	L0000767	L0000768	L0000769
SRCGROUP	SRCGP1	L0000770	L0000771	L0000772	L0000773	L0000774	L0000775
SRCGROUP	SRCGP1	L0000776	L0000777	L0000778	L0000779	L0000780	L0000781
SRCGROUP	SRCGP1	L0000782	L0000783	L0000784	L0000785	L0000786	L0000787

SRCGROUP	SRCGP1	L0000788	L0000789	L0000790	L0000791	L0000792	L0000793
SRCGROUP	SRCGP1	L0000794	L0000795	L0000796	L0000797	L0000798	L0000799
SRCGROUP	SRCGP1	L0000800	L0000801	L0000802	L0000803	L0000804	L0000805
SRCGROUP	SRCGP1	L0000806	L0000807	L0000808	L0000809	L0000810	L0000811
SRCGROUP	SRCGP1	L0000812					
SRCGROUP	SRCGP2	L0000001	L0000002	L0000003	L0000004	L0000005	L0000006
SRCGROUP	SRCGP2	L0000007	L0000008	L0000009	L0000010	L0000011	L0000012
SRCGROUP	SRCGP2	L0000013	L0000014	L0000015	L0000016	L0000017	L0000018
SRCGROUP	SRCGP2	L0000019	L0000020	L0000021	L0000022	L0000023	L0000024
SRCGROUP	SRCGP2	L0000025	L0000026	L0000027	L0000028	L0000029	L0000030
SRCGROUP	SRCGP2	L0000031	L0000032	L0000033	L0000034	L0000035	L0000036
SRCGROUP	SRCGP2	L0000037	L0000038	L0000039	L0000040	L0000041	L0000042
SRCGROUP	SRCGP2	L0000043	L0000044	L0000045	L0000046	L0000047	L0000048
SRCGROUP	SRCGP2	L0000049	L0000050	L0000051	L0000052	L0000053	L0000054
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SRCGROUP	SRCGP2	L0000061	L0000062	L0000063	L0000064	L0000065	L0000066
SRCGROUP	SRCGP2	L0000067	L0000068	L0000069	L0000070	L0000071	L0000072
SRCGROUP	SRCGP2	L0000073	L0000074	L0000075	L0000076	L0000077	L0000078
SRCGROUP	SRCGP2	L0000079	L0000080	L0000081	L0000082	L0000083	L0000084
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SRCGROUP	SRCGP2	L0000091	L0000092	L0000093	L0000094	L0000095	L0000096
SRCGROUP	SRCGP2	L0000097	L0000098	L0000099	L0000100	L0000101	L0000102
SRCGROUP	SRCGP2	L0000103	L0000104	L0000105	L0000106	L0000107	L0000108
SRCGROUP	SRCGP2	L0000109	L0000110	L0000111	L0000112	L0000113	L0000114
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SRCGROUP	SRCGP2	L0000127	L0000128	L0000129	L0000130	L0000131	L0000132
SRCGROUP	SRCGP2	L0000133	L0000134	L0000135	L0000136	L0000137	L0000138
SRCGROUP	SRCGP2	L0000139	L0000140	L0000141	L0000142	L0000143	L0000144
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SRCGROUP	SRCGP2	L0000157	L0000158	L0000159	L0000160	L0000161	L0000162
SRCGROUP	SRCGP2	L0000163	L0000164	L0000165	L0000166	L0000167	L0000168
SRCGROUP	SRCGP2	L0000169	L0000170	L0000171	L0000172	L0000173	L0000174
SRCGROUP	SRCGP2	L0000175	L0000176	L0000177	L0000178	L0000179	L0000180
SRCGROUP	SRCGP2	L0000181	L0000182	L0000183	L0000184	L0000185	L0000186
SRCGROUP	SRCGP2	L0000187	L0000188	L0000189	L0000190	L0000191	L0000192
SRCGROUP	SRCGP2	L0000193	L0000194	L0000195	L0000196	L0000197	L0000198
SRCGROUP	SRCGP2	L0000199	L0000200	L0000201	L0000202	L0000203	L0000204
SRCGROUP	SRCGP2	L0000205	L0000206	L0000207	L0000208	L0000209	L0000210
SRCGROUP	SRCGP2	L0000211	L0000212	L0000213	L0000214	L0000215	L0000216
SRCGROUP	SRCGP2	L0000217	L0000218	L0000219	L0000220	L0000221	L0000222
SRCGROUP	SRCGP2	L0000223	L0000224	L0000225	L0000226	L0000227	L0000228
SRCGROUP	SRCGP2	L0000229	L0000230	L0000231	L0000232	L0000233	L0000234
SRCGROUP	SRCGP2	L0000235	L0000236	L0000237	L0000238	L0000239	L0000240
SRCGROUP	SRCGP2	L0000241	L0000242	L0000243	L0000244	L0000245	L0000246
SRCGROUP	SRCGP2	L0000247	L0000248	L0000249	L0000250	L0000251	L0000252
SRCGROUP	SRCGP2	L0000253	L0000254	L0000255	L0000256	L0000257	L0000258
SRCGROUP	SRCGP2	L0000259	L0000260	L0000261	L0000262	L0000263	L0000264
SRCGROUP	SRCGP2	L0000265	L0000266	L0000267	L0000268	L0000269	L0000270

SRCGROUP	SRCGP2	L0000271	L0000272	L0000273	L0000274	L0000275	L0000276
SRCGROUP	SRCGP2	L0000277	L0000278	L0000279	L0000280	L0000281	L0000282
SRCGROUP	SRCGP2	L0000283	L0000284	L0000285	L0000286	L0000287	L0000288
SRCGROUP	SRCGP2	L0000289	L0000290	L0000291	L0000292	L0000293	L0000294
SRCGROUP	SRCGP2	L0000295	L0000296	L0000297	L0000298	L0000299	L0000300
SRCGROUP	SRCGP2	L0000301	L0000302	L0000303	L0000304	L0000305	L0000306
SRCGROUP	SRCGP2	L0000307	L0000308	L0000309	L0000310	L0000311	L0000312
SRCGROUP	SRCGP2	L0000313	L0000314	L0000315	L0000316	L0000317	L0000318
SRCGROUP	SRCGP2	L0000319	L0000320	L0000321	L0000322	L0000323	L0000324
SRCGROUP	SRCGP2	L0000325	L0000326	L0000327	L0000328	L0000329	L0000330
SRCGROUP	SRCGP2	L0000331	L0000332	L0000333	L0000334	L0000335	L0000336
SRCGROUP	SRCGP2	L0000337	L0000338	L0000339	L0000340	L0000341	L0000342
SRCGROUP	SRCGP2	L0000343	L0000344	L0000345	L0000346	L0000347	L0000348
SRCGROUP	SRCGP2	L0000349	L0000350	L0000351	L0000352	L0000353	L0000354
SRCGROUP	SRCGP2	L0000355	L0000356	L0000357	L0000358	L0000359	L0000360
SRCGROUP	SRCGP2	L0000361	L0000362	L0000363	L0000364	L0000365	L0000366
SRCGROUP	SRCGP2	L0000367	L0000368	L0000369	L0000370	L0000371	L0000372
SRCGROUP	SRCGP2	L0000373	L0000374	L0000375	L0000376	L0000377	L0000378
SRCGROUP	SRCGP2	L0000379	L0000380	L0000381	L0000382	L0000383	L0000384
SRCGROUP	SRCGP2	L0000385	L0000386	L0000387	L0000388	L0000389	L0000390
SRCGROUP	SRCGP2	L0000391	L0000392	L0000393	L0000394	L0000395	L0000396
SRCGROUP	SRCGP2	L0000397	L0000398	L0000399	L0000400	L0000401	L0000402
SRCGROUP	SRCGP2	L0000403	L0000404	L0000405	L0000406	L0000407	L0000408
SRCGROUP	SRCGP2	L0000409					
SRCGROUP	SRCGP3	SPRNIDLEWB1					
SRCGROUP	SRCGP4	SPRNIDLEEB1					
SRCGROUP	SRCGP5	SPRNIDLEWB2					
SRCGROUP	SRCGP6	SPRNIDLEEB2					
SRCGROUP	ALL						

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "Trolley Place Ops.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE McClellanPalomar_2019_2021_v22112.SFC

PROFFILE McClellanPalomar_2019_2021_v22112.PFL

SURFDATA 3177 2019 McClellan-Palomar

UAIRDATA 3190 2019

PROFBASE 92.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "TROLLEY PLACE OPS.AD\01H1GALL.PLT" 31

PLOTFILE 1 SRCGP1 1ST "TROLLEY PLACE OPS.AD\01H1G001.PLT" 32

PLOTFILE 1 SRCGP2 1ST "TROLLEY PLACE OPS.AD\01H1G002.PLT" 33

PLOTFILE 1 SRCGP3 1ST "TROLLEY PLACE OPS.AD\01H1G003.PLT" 34

PLOTFILE 1 SRCGP4 1ST "TROLLEY PLACE OPS.AD\01H1G004.PLT" 35

PLOTFILE 1 SRCGP5 1ST "TROLLEY PLACE OPS.AD\01H1G005.PLT" 36

PLOTFILE 1 SRCGP6 1ST "TROLLEY PLACE OPS.AD\01H1G006.PLT" 37

PLOTFILE PERIOD ALL "TROLLEY PLACE OPS.AD\PE00GALL.PLT" 38

PLOTFILE PERIOD SRCGP1 "TROLLEY PLACE OPS.AD\PE00G001.PLT" 39

PLOTFILE PERIOD SRCGP2 "TROLLEY PLACE OPS.AD\PE00G002.PLT" 40

PLOTFILE PERIOD SRCGP3 "TROLLEY PLACE OPS.AD\PE00G003.PLT" 41

PLOTFILE PERIOD SRCGP4 "TROLLEY PLACE OPS.AD\PE00G004.PLT" 42

PLOTFILE PERIOD SRCGP5 "TROLLEY PLACE OPS.AD\PE00G005.PLT" 43

PLOTFILE PERIOD SRCGP6 "TROLLEY PLACE OPS.AD\PE00G006.PLT" 44

SUMMFILE "Trolley Place Ops.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 1951 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50

ME W187 1951 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 816 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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 Accepts 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: 816 Source(s); 7 Source Group(s); and 29
Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 812 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**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) = 92.00 ; 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 = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Trolley Place Ops.err

**File for Summary of Results: Trolley Place Ops.sum

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** POINT SOURCE DATA ***

STACK SOURCE VEL. DIAMETER ID (M/SEC)	STACK PART. EXISTS CATS. (METERS)	BLDG (GRAMS/SEC)	URBAN HOR	CAP/ SCALAR (METERS)	EMISSION RATE X (METERS)	EMISSION RATE Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	EXIT

SPRNIDLEEB1	0	0.10000E+01	473166.1	3674006.8	68.5	4.76	385.45		
4.83 0.56	NO	YES NO							
SPRNIDLEWB1	0	0.10000E+01	473100.0	3673988.4	67.4	4.76	385.45		
4.83 0.56	NO	YES NO							
SPRNIDLEEB2	0	0.10000E+01	470994.1	3673672.3	45.0	4.76	385.45		
4.83 0.56	NO	YES NO							
SPRNIDLEWB2	0	0.10000E+01	470951.5	3673668.3	45.1	4.76	385.45		
4.83 0.56	NO	YES NO							

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT. SOURCE SZ ID (METERS)	URBAN SOURCE ID (METERS)	NUMBER EMISSION RATE PART. (GRAMS/SEC) SCALAR VARY CATS. BY	EMISSION RATE X (METERS)	EMISSION RATE Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)

L0000001	0	0.24450E-02	470948.7	3673666.6	44.9	4.76	5.12
4.43 YES		NO					
L0000002	0	0.24450E-02	470959.5	3673668.6	45.1	4.76	5.12
4.43 YES		NO					
L0000003	0	0.24450E-02	470970.3	3673670.6	45.0	4.76	5.12
4.43 YES		NO					
L0000004	0	0.24450E-02	470981.1	3673672.6	45.0	4.76	5.12
4.43 YES		NO					
L0000005	0	0.24450E-02	470992.0	3673674.6	45.2	4.76	5.12
4.43 YES		NO					
L0000006	0	0.24450E-02	471002.8	3673676.6	45.4	4.76	5.12
4.43 YES		NO					

L0000007	0	0.24450E-02	471013.6	3673678.6	45.3	4.76	5.12
4.43 YES		NO					
L0000008	0	0.24450E-02	471024.4	3673680.6	45.4	4.76	5.12
4.43 YES		NO					
L0000009	0	0.24450E-02	471035.2	3673682.6	45.5	4.76	5.12
4.43 YES		NO					
L0000010	0	0.24450E-02	471046.0	3673684.6	45.8	4.76	5.12
4.43 YES		NO					
L0000011	0	0.24450E-02	471056.9	3673686.6	46.0	4.76	5.12
4.43 YES		NO					
L0000012	0	0.24450E-02	471067.7	3673688.6	46.1	4.76	5.12
4.43 YES		NO					
L0000013	0	0.24450E-02	471078.5	3673690.6	46.2	4.76	5.12
4.43 YES		NO					
L0000014	0	0.24450E-02	471089.3	3673692.6	46.2	4.76	5.12
4.43 YES		NO					
L0000015	0	0.24450E-02	471100.1	3673694.6	46.2	4.76	5.12
4.43 YES		NO					
L0000016	0	0.24450E-02	471111.0	3673696.6	46.2	4.76	5.12
4.43 YES		NO					
L0000017	0	0.24450E-02	471121.8	3673698.6	46.3	4.76	5.12
4.43 YES		NO					
L0000018	0	0.24450E-02	471132.6	3673700.5	46.6	4.76	5.12
4.43 YES		NO					
L0000019	0	0.24450E-02	471143.4	3673702.5	47.0	4.76	5.12
4.43 YES		NO					
L0000020	0	0.24450E-02	471154.2	3673704.5	46.9	4.76	5.12
4.43 YES		NO					
L0000021	0	0.24450E-02	471165.0	3673706.5	46.9	4.76	5.12
4.43 YES		NO					
L0000022	0	0.24450E-02	471175.9	3673708.5	47.1	4.76	5.12
4.43 YES		NO					
L0000023	0	0.24450E-02	471186.7	3673710.5	47.4	4.76	5.12
4.43 YES		NO					
L0000024	0	0.24450E-02	471197.5	3673712.5	47.8	4.76	5.12
4.43 YES		NO					
L0000025	0	0.24450E-02	471208.3	3673714.5	47.6	4.76	5.12
4.43 YES		NO					
L0000026	0	0.24450E-02	471219.1	3673716.5	47.6	4.76	5.12
4.43 YES		NO					
L0000027	0	0.24450E-02	471229.9	3673718.5	47.7	4.76	5.12
4.43 YES		NO					
L0000028	0	0.24450E-02	471240.8	3673720.5	47.9	4.76	5.12
4.43 YES		NO					
L0000029	0	0.24450E-02	471251.6	3673722.5	48.2	4.76	5.12
4.43 YES		NO					
L0000030	0	0.24450E-02	471262.4	3673724.5	48.0	4.76	5.12
4.43 YES		NO					
L0000031	0	0.24450E-02	471273.2	3673726.5	47.9	4.76	5.12
4.43 YES		NO					

L0000032	0	0.24450E-02	471284.0	3673728.5	47.9	4.76	5.12
4.43 YES		NO					
L0000033	0	0.24450E-02	471294.8	3673730.5	48.0	4.76	5.12
4.43 YES		NO					
L0000034	0	0.24450E-02	471305.7	3673732.5	48.4	4.76	5.12
4.43 YES		NO					
L0000035	0	0.24450E-02	471316.5	3673734.5	48.2	4.76	5.12
4.43 YES		NO					
L0000036	0	0.24450E-02	471327.3	3673736.5	48.1	4.76	5.12
4.43 YES		NO					
L0000037	0	0.24450E-02	471338.1	3673738.5	48.0	4.76	5.12
4.43 YES		NO					
L0000038	0	0.24450E-02	471348.9	3673740.4	48.0	4.76	5.12
4.43 YES		NO					
L0000039	0	0.24450E-02	471359.9	3673741.7	48.4	4.76	5.12
4.43 YES		NO					
L0000040	0	0.24450E-02	471370.8	3673743.0	48.6	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000041	0	0.24450E-02	471381.7	3673744.2	48.5	4.76	5.12
4.43 YES		NO					
L0000042	0	0.24450E-02	471392.6	3673745.5	48.4	4.76	5.12
4.43 YES		NO					
L0000043	0	0.24450E-02	471403.6	3673746.8	48.4	4.76	5.12
4.43 YES		NO					
L0000044	0	0.24450E-02	471414.5	3673748.1	48.4	4.76	5.12
4.43 YES		NO					
L0000045	0	0.24450E-02	471425.4	3673749.3	48.4	4.76	5.12
4.43 YES		NO					
L0000046	0	0.24450E-02	471436.4	3673750.5	48.6	4.76	5.12
4.43 YES		NO					

L0000047	0	0.24450E-02	471447.3	3673751.8	49.0	4.76	5.12
4.43 YES		NO					
L0000048	0	0.24450E-02	471458.2	3673752.9	49.2	4.76	5.12
4.43 YES		NO					
L0000049	0	0.24450E-02	471469.2	3673753.7	49.2	4.76	5.12
4.43 YES		NO					
L0000050	0	0.24450E-02	471480.2	3673754.5	49.3	4.76	5.12
4.43 YES		NO					
L0000051	0	0.24450E-02	471491.1	3673755.3	49.3	4.76	5.12
4.43 YES		NO					
L0000052	0	0.24450E-02	471502.1	3673756.1	49.6	4.76	5.12
4.43 YES		NO					
L0000053	0	0.24450E-02	471513.1	3673756.8	49.8	4.76	5.12
4.43 YES		NO					
L0000054	0	0.24450E-02	471524.1	3673757.6	50.0	4.76	5.12
4.43 YES		NO					
L0000055	0	0.24450E-02	471535.0	3673758.3	50.2	4.76	5.12
4.43 YES		NO					
L0000056	0	0.24450E-02	471546.0	3673759.1	50.4	4.76	5.12
4.43 YES		NO					
L0000057	0	0.24450E-02	471557.0	3673759.8	50.5	4.76	5.12
4.43 YES		NO					
L0000058	0	0.24450E-02	471568.0	3673760.6	50.8	4.76	5.12
4.43 YES		NO					
L0000059	0	0.24450E-02	471578.9	3673761.3	51.3	4.76	5.12
4.43 YES		NO					
L0000060	0	0.24450E-02	471589.9	3673762.0	51.6	4.76	5.12
4.43 YES		NO					
L0000061	0	0.24450E-02	471600.9	3673762.7	51.9	4.76	5.12
4.43 YES		NO					
L0000062	0	0.24450E-02	471611.9	3673763.5	52.1	4.76	5.12
4.43 YES		NO					
L0000063	0	0.24450E-02	471622.8	3673764.2	52.2	4.76	5.12
4.43 YES		NO					
L0000064	0	0.24450E-02	471633.8	3673765.2	52.4	4.76	5.12
4.43 YES		NO					
L0000065	0	0.24450E-02	471644.8	3673766.1	52.5	4.76	5.12
4.43 YES		NO					
L0000066	0	0.24450E-02	471655.7	3673767.0	52.7	4.76	5.12
4.43 YES		NO					
L0000067	0	0.24450E-02	471666.7	3673767.9	52.8	4.76	5.12
4.43 YES		NO					
L0000068	0	0.24450E-02	471677.7	3673768.5	52.9	4.76	5.12
4.43 YES		NO					
L0000069	0	0.24450E-02	471688.6	3673769.1	52.9	4.76	5.12
4.43 YES		NO					
L0000070	0	0.24450E-02	471699.6	3673769.7	53.0	4.76	5.12
4.43 YES		NO					
L0000071	0	0.24450E-02	471710.6	3673770.3	53.2	4.76	5.12
4.43 YES		NO					

L0000072	0	0.24450E-02	471721.6	3673770.9	53.4	4.76	5.12
4.43 YES		NO					
L0000073	0	0.24450E-02	471732.6	3673771.5	53.6	4.76	5.12
4.43 YES		NO					
L0000074	0	0.24450E-02	471743.5	3673772.7	53.6	4.76	5.12
4.43 YES		NO					
L0000075	0	0.24450E-02	471754.4	3673774.2	53.5	4.76	5.12
4.43 YES		NO					
L0000076	0	0.24450E-02	471765.4	3673775.0	53.4	4.76	5.12
4.43 YES		NO					
L0000077	0	0.24450E-02	471776.4	3673775.7	53.5	4.76	5.12
4.43 YES		NO					
L0000078	0	0.24450E-02	471787.3	3673776.5	53.4	4.76	5.12
4.43 YES		NO					
L0000079	0	0.24450E-02	471798.3	3673777.2	53.4	4.76	5.12
4.43 YES		NO					
L0000080	0	0.24450E-02	471809.3	3673777.9	53.3	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000081	0	0.24450E-02	471820.3	3673778.7	53.3	4.76	5.12
4.43 YES		NO					
L0000082	0	0.24450E-02	471831.2	3673779.4	53.3	4.76	5.12
4.43 YES		NO					
L0000083	0	0.24450E-02	471842.2	3673780.1	53.3	4.76	5.12
4.43 YES		NO					
L0000084	0	0.24450E-02	471853.2	3673780.9	53.5	4.76	5.12
4.43 YES		NO					
L0000085	0	0.24450E-02	471864.2	3673781.6	53.7	4.76	5.12
4.43 YES		NO					
L0000086	0	0.24450E-02	471875.1	3673782.3	53.8	4.76	5.12
4.43 YES		NO					

L0000087	0	0.24450E-02	471886.1	3673783.1	53.8	4.76	5.12
4.43 YES		NO					
L0000088	0	0.24450E-02	471897.1	3673783.8	53.8	4.76	5.12
4.43 YES		NO					
L0000089	0	0.24450E-02	471908.1	3673784.5	53.8	4.76	5.12
4.43 YES		NO					
L0000090	0	0.24450E-02	471919.0	3673785.3	53.8	4.76	5.12
4.43 YES		NO					
L0000091	0	0.24450E-02	471930.0	3673786.0	53.8	4.76	5.12
4.43 YES		NO					
L0000092	0	0.24450E-02	471941.0	3673786.8	53.9	4.76	5.12
4.43 YES		NO					
L0000093	0	0.24450E-02	471952.0	3673787.5	53.9	4.76	5.12
4.43 YES		NO					
L0000094	0	0.24450E-02	471962.9	3673788.2	54.0	4.76	5.12
4.43 YES		NO					
L0000095	0	0.24450E-02	471973.9	3673789.0	54.0	4.76	5.12
4.43 YES		NO					
L0000096	0	0.24450E-02	471984.9	3673789.7	54.1	4.76	5.12
4.43 YES		NO					
L0000097	0	0.24450E-02	471995.9	3673790.4	54.4	4.76	5.12
4.43 YES		NO					
L0000098	0	0.24450E-02	472006.8	3673791.2	54.8	4.76	5.12
4.43 YES		NO					
L0000099	0	0.24450E-02	472017.8	3673791.9	55.0	4.76	5.12
4.43 YES		NO					
L0000100	0	0.24450E-02	472028.8	3673792.6	55.1	4.76	5.12
4.43 YES		NO					
L0000101	0	0.24450E-02	472039.8	3673793.4	55.1	4.76	5.12
4.43 YES		NO					
L0000102	0	0.24450E-02	472050.7	3673794.1	55.2	4.76	5.12
4.43 YES		NO					
L0000103	0	0.24450E-02	472061.7	3673794.8	55.3	4.76	5.12
4.43 YES		NO					
L0000104	0	0.24450E-02	472072.7	3673795.6	55.4	4.76	5.12
4.43 YES		NO					
L0000105	0	0.24450E-02	472083.7	3673796.3	55.5	4.76	5.12
4.43 YES		NO					
L0000106	0	0.24450E-02	472094.6	3673797.0	55.6	4.76	5.12
4.43 YES		NO					
L0000107	0	0.24450E-02	472105.6	3673797.8	55.7	4.76	5.12
4.43 YES		NO					
L0000108	0	0.24450E-02	472116.6	3673798.5	55.7	4.76	5.12
4.43 YES		NO					
L0000109	0	0.24450E-02	472127.6	3673799.2	56.0	4.76	5.12
4.43 YES		NO					
L0000110	0	0.24450E-02	472138.5	3673800.0	55.3	4.76	5.12
4.43 YES		NO					
L0000111	0	0.24450E-02	472149.5	3673800.7	56.2	4.76	5.12
4.43 YES		NO					

L0000112	0	0.24450E-02	472160.5	3673801.4	56.6	4.76	5.12
4.43 YES		NO					
L0000113	0	0.24450E-02	472171.5	3673802.1	56.8	4.76	5.12
4.43 YES		NO					
L0000114	0	0.24450E-02	472182.5	3673802.8	56.9	4.76	5.12
4.43 YES		NO					
L0000115	0	0.24450E-02	472193.4	3673803.5	56.9	4.76	5.12
4.43 YES		NO					
L0000116	0	0.24450E-02	472204.4	3673804.1	57.0	4.76	5.12
4.43 YES		NO					
L0000117	0	0.24450E-02	472215.4	3673804.8	57.1	4.76	5.12
4.43 YES		NO					
L0000118	0	0.24450E-02	472226.4	3673805.4	57.2	4.76	5.12
4.43 YES		NO					
L0000119	0	0.24450E-02	472237.4	3673806.1	57.3	4.76	5.12
4.43 YES		NO					
L0000120	0	0.24450E-02	472248.3	3673806.8	57.3	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000121	0	0.24450E-02	472259.3	3673807.4	57.4	4.76	5.12
4.43 YES		NO					
L0000122	0	0.24450E-02	472270.3	3673808.1	57.5	4.76	5.12
4.43 YES		NO					
L0000123	0	0.24450E-02	472281.3	3673808.8	57.7	4.76	5.12
4.43 YES		NO					
L0000124	0	0.24450E-02	472292.3	3673809.4	58.0	4.76	5.12
4.43 YES		NO					
L0000125	0	0.24450E-02	472303.2	3673810.1	58.1	4.76	5.12
4.43 YES		NO					
L0000126	0	0.24450E-02	472314.2	3673810.7	58.3	4.76	5.12
4.43 YES		NO					

L0000127	0	0.24450E-02	472325.2	3673811.4	58.5	4.76	5.12
4.43 YES		NO					
L0000128	0	0.24450E-02	472336.2	3673812.2	58.7	4.76	5.12
4.43 YES		NO					
L0000129	0	0.24450E-02	472347.1	3673813.0	58.7	4.76	5.12
4.43 YES		NO					
L0000130	0	0.24450E-02	472358.1	3673813.8	58.8	4.76	5.12
4.43 YES		NO					
L0000131	0	0.24450E-02	472369.1	3673814.6	58.9	4.76	5.12
4.43 YES		NO					
L0000132	0	0.24450E-02	472380.1	3673815.4	58.9	4.76	5.12
4.43 YES		NO					
L0000133	0	0.24450E-02	472391.0	3673816.1	59.0	4.76	5.12
4.43 YES		NO					
L0000134	0	0.24450E-02	472402.0	3673816.9	59.0	4.76	5.12
4.43 YES		NO					
L0000135	0	0.24450E-02	472413.0	3673817.7	59.1	4.76	5.12
4.43 YES		NO					
L0000136	0	0.24450E-02	472423.9	3673818.5	59.4	4.76	5.12
4.43 YES		NO					
L0000137	0	0.24450E-02	472434.9	3673819.3	59.6	4.76	5.12
4.43 YES		NO					
L0000138	0	0.24450E-02	472445.9	3673820.0	59.8	4.76	5.12
4.43 YES		NO					
L0000139	0	0.24450E-02	472456.9	3673820.8	60.0	4.76	5.12
4.43 YES		NO					
L0000140	0	0.24450E-02	472467.8	3673821.6	60.3	4.76	5.12
4.43 YES		NO					
L0000141	0	0.24450E-02	472478.8	3673822.4	60.4	4.76	5.12
4.43 YES		NO					
L0000142	0	0.24450E-02	472489.8	3673823.2	60.4	4.76	5.12
4.43 YES		NO					
L0000143	0	0.24450E-02	472500.7	3673824.0	60.5	4.76	5.12
4.43 YES		NO					
L0000144	0	0.24450E-02	472511.7	3673824.8	60.5	4.76	5.12
4.43 YES		NO					
L0000145	0	0.24450E-02	472522.7	3673825.6	60.6	4.76	5.12
4.43 YES		NO					
L0000146	0	0.24450E-02	472533.7	3673826.5	60.7	4.76	5.12
4.43 YES		NO					
L0000147	0	0.24450E-02	472544.6	3673827.3	60.7	4.76	5.12
4.43 YES		NO					
L0000148	0	0.24450E-02	472555.6	3673828.2	60.9	4.76	5.12
4.43 YES		NO					
L0000149	0	0.24450E-02	472566.6	3673829.0	61.1	4.76	5.12
4.43 YES		NO					
L0000150	0	0.24450E-02	472577.5	3673829.8	61.4	4.76	5.12
4.43 YES		NO					
L0000151	0	0.24450E-02	472588.5	3673830.6	61.6	4.76	5.12
4.43 YES		NO					

L0000152	0	0.24450E-02	472599.5	3673831.3	61.8	4.76	5.12
4.43 YES		NO					
L0000153	0	0.24450E-02	472610.5	3673832.0	61.9	4.76	5.12
4.43 YES		NO					
L0000154	0	0.24450E-02	472621.4	3673832.7	62.0	4.76	5.12
4.43 YES		NO					
L0000155	0	0.24450E-02	472632.4	3673833.3	62.1	4.76	5.12
4.43 YES		NO					
L0000156	0	0.24450E-02	472643.4	3673834.0	62.2	4.76	5.12
4.43 YES		NO					
L0000157	0	0.24450E-02	472654.4	3673834.7	62.2	4.76	5.12
4.43 YES		NO					
L0000158	0	0.24450E-02	472665.3	3673835.4	62.3	4.76	5.12
4.43 YES		NO					
L0000159	0	0.24450E-02	472676.3	3673836.1	62.5	4.76	5.12
4.43 YES		NO					
L0000160	0	0.24450E-02	472687.3	3673837.0	62.6	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000161	0	0.24450E-02	472698.3	3673837.9	62.7	4.76	5.12
4.43 YES		NO					
L0000162	0	0.24450E-02	472709.2	3673838.8	62.9	4.76	5.12
4.43 YES		NO					
L0000163	0	0.24450E-02	472720.2	3673839.7	63.1	4.76	5.12
4.43 YES		NO					
L0000164	0	0.24450E-02	472731.1	3673840.6	63.3	4.76	5.12
4.43 YES		NO					
L0000165	0	0.24450E-02	472742.1	3673841.6	63.5	4.76	5.12
4.43 YES		NO					
L0000166	0	0.24450E-02	472752.8	3673843.9	63.5	4.76	5.12
4.43 YES		NO					

L0000167	0	0.24450E-02	472763.6	3673846.2	63.5	4.76	5.12
4.43 YES		NO					
L0000168	0	0.24450E-02	472774.4	3673848.5	63.6	4.76	5.12
4.43 YES		NO					
L0000169	0	0.24450E-02	472785.1	3673850.8	64.0	4.76	5.12
4.43 YES		NO					
L0000170	0	0.24450E-02	472795.9	3673853.1	64.0	4.76	5.12
4.43 YES		NO					
L0000171	0	0.24450E-02	472806.5	3673855.9	64.0	4.76	5.12
4.43 YES		NO					
L0000172	0	0.24450E-02	472816.8	3673859.7	64.2	4.76	5.12
4.43 YES		NO					
L0000173	0	0.24450E-02	472827.1	3673863.6	64.4	4.76	5.12
4.43 YES		NO					
L0000174	0	0.24450E-02	472837.4	3673867.4	64.3	4.76	5.12
4.43 YES		NO					
L0000175	0	0.24450E-02	472847.7	3673871.3	64.7	4.76	5.12
4.43 YES		NO					
L0000176	0	0.24450E-02	472858.0	3673875.1	64.7	4.76	5.12
4.43 YES		NO					
L0000177	0	0.24450E-02	472868.1	3673879.4	64.7	4.76	5.12
4.43 YES		NO					
L0000178	0	0.24450E-02	472878.1	3673884.0	65.0	4.76	5.12
4.43 YES		NO					
L0000179	0	0.24450E-02	472888.2	3673888.5	64.9	4.76	5.12
4.43 YES		NO					
L0000180	0	0.24450E-02	472898.2	3673893.1	65.3	4.76	5.12
4.43 YES		NO					
L0000181	0	0.24450E-02	472908.2	3673897.7	65.2	4.76	5.12
4.43 YES		NO					
L0000182	0	0.24450E-02	472918.2	3673902.3	65.3	4.76	5.12
4.43 YES		NO					
L0000183	0	0.24450E-02	472928.2	3673906.8	65.5	4.76	5.12
4.43 YES		NO					
L0000184	0	0.24450E-02	472938.2	3673911.4	65.7	4.76	5.12
4.43 YES		NO					
L0000185	0	0.24450E-02	472948.2	3673916.0	65.9	4.76	5.12
4.43 YES		NO					
L0000186	0	0.24450E-02	472958.2	3673920.6	65.8	4.76	5.12
4.43 YES		NO					
L0000187	0	0.24450E-02	472968.2	3673925.1	66.3	4.76	5.12
4.43 YES		NO					
L0000188	0	0.24450E-02	472978.2	3673929.7	66.1	4.76	5.12
4.43 YES		NO					
L0000189	0	0.24450E-02	472988.2	3673934.3	66.3	4.76	5.12
4.43 YES		NO					
L0000190	0	0.24450E-02	472998.2	3673938.9	66.3	4.76	5.12
4.43 YES		NO					
L0000191	0	0.24450E-02	473008.2	3673943.4	66.6	4.76	5.12
4.43 YES		NO					

L0000192	0	0.24450E-02	473018.2	3673948.0	66.8	4.76	5.12
4.43 YES		NO					
L0000193	0	0.24450E-02	473028.2	3673952.6	66.9	4.76	5.12
4.43 YES		NO					
L0000194	0	0.24450E-02	473038.2	3673957.2	67.0	4.76	5.12
4.43 YES		NO					
L0000195	0	0.24450E-02	473048.2	3673961.7	67.2	4.76	5.12
4.43 YES		NO					
L0000196	0	0.24450E-02	473058.2	3673966.3	67.1	4.76	5.12
4.43 YES		NO					
L0000197	0	0.24450E-02	473068.2	3673970.9	67.2	4.76	5.12
4.43 YES		NO					
L0000198	0	0.24450E-02	473078.2	3673975.5	67.2	4.76	5.12
4.43 YES		NO					
L0000199	0	0.24450E-02	473088.2	3673980.0	67.5	4.76	5.12
4.43 YES		NO					
L0000200	0	0.24450E-02	473098.2	3673984.6	67.5	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	SOURCE	EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID		SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000201	0	0.24450E-02	473108.2	3673989.2	67.8	4.76	5.12
4.43 YES		NO					
L0000202	0	0.24450E-02	473118.2	3673993.8	68.0	4.76	5.12
4.43 YES		NO					
L0000203	0	0.24450E-02	473128.2	3673998.4	67.8	4.76	5.12
4.43 YES		NO					
L0000204	0	0.24450E-02	473138.2	3674002.9	68.0	4.76	5.12
4.43 YES		NO					
L0000205	0	0.24450E-02	473148.2	3674007.5	68.0	4.76	5.12
4.43 YES		NO					
L0000206	0	0.24450E-02	473158.2	3674012.1	68.5	4.76	5.12
4.43 YES		NO					

L0000207	0	0.24450E-02	473168.2	3674016.7	67.9	4.76	5.12
4.43 YES		NO					
L0000208	0	0.24450E-02	473178.2	3674021.2	68.4	4.76	5.12
4.43 YES		NO					
L0000209	0	0.24450E-02	473188.2	3674025.8	68.2	4.76	5.12
4.43 YES		NO					
L0000210	0	0.24450E-02	473198.3	3674030.4	68.4	4.76	5.12
4.43 YES		NO					
L0000211	0	0.24450E-02	473208.3	3674035.0	68.5	4.76	5.12
4.43 YES		NO					
L0000212	0	0.24450E-02	473218.3	3674039.5	68.6	4.76	5.12
4.43 YES		NO					
L0000213	0	0.24450E-02	473228.3	3674044.1	68.7	4.76	5.12
4.43 YES		NO					
L0000214	0	0.24450E-02	473238.3	3674048.7	68.6	4.76	5.12
4.43 YES		NO					
L0000215	0	0.24450E-02	473248.3	3674053.3	68.8	4.76	5.12
4.43 YES		NO					
L0000216	0	0.24450E-02	473258.3	3674057.8	68.7	4.76	5.12
4.43 YES		NO					
L0000217	0	0.24450E-02	473268.3	3674062.4	68.9	4.76	5.12
4.43 YES		NO					
L0000218	0	0.24450E-02	473278.3	3674067.0	68.9	4.76	5.12
4.43 YES		NO					
L0000219	0	0.24450E-02	473288.3	3674071.6	69.1	4.76	5.12
4.43 YES		NO					
L0000220	0	0.24450E-02	473298.3	3674076.1	69.1	4.76	5.12
4.43 YES		NO					
L0000221	0	0.24450E-02	473308.3	3674080.7	69.2	4.76	5.12
4.43 YES		NO					
L0000222	0	0.24450E-02	473318.3	3674085.3	69.4	4.76	5.12
4.43 YES		NO					
L0000223	0	0.24450E-02	473328.3	3674089.9	69.4	4.76	5.12
4.43 YES		NO					
L0000224	0	0.24450E-02	473338.3	3674094.4	69.5	4.76	5.12
4.43 YES		NO					
L0000225	0	0.24450E-02	473348.3	3674098.9	69.7	4.76	5.12
4.43 YES		NO					
L0000226	0	0.24450E-02	473358.4	3674103.4	69.8	4.76	5.12
4.43 YES		NO					
L0000227	0	0.24450E-02	473368.4	3674107.9	69.8	4.76	5.12
4.43 YES		NO					
L0000228	0	0.24450E-02	473378.5	3674112.3	70.0	4.76	5.12
4.43 YES		NO					
L0000229	0	0.24450E-02	473388.5	3674116.8	70.1	4.76	5.12
4.43 YES		NO					
L0000230	0	0.24450E-02	473398.6	3674121.3	70.2	4.76	5.12
4.43 YES		NO					
L0000231	0	0.24450E-02	473408.6	3674125.8	70.3	4.76	5.12
4.43 YES		NO					

L0000232	0	0.24450E-02	473418.7	3674130.2	70.5	4.76	5.12
4.43 YES		NO					
L0000233	0	0.24450E-02	473428.7	3674134.7	70.8	4.76	5.12
4.43 YES		NO					
L0000234	0	0.24450E-02	473438.8	3674139.2	70.9	4.76	5.12
4.43 YES		NO					
L0000235	0	0.24450E-02	473448.8	3674143.7	71.0	4.76	5.12
4.43 YES		NO					
L0000236	0	0.24450E-02	473458.9	3674148.2	71.1	4.76	5.12
4.43 YES		NO					
L0000237	0	0.24450E-02	473468.9	3674152.6	71.0	4.76	5.12
4.43 YES		NO					
L0000238	0	0.24450E-02	473479.0	3674157.1	71.1	4.76	5.12
4.43 YES		NO					
L0000239	0	0.24450E-02	473489.0	3674161.6	71.1	4.76	5.12
4.43 YES		NO					
L0000240	0	0.24450E-02	473499.1	3674166.1	71.3	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000241	0	0.24450E-02	473509.1	3674170.5	71.4	4.76	5.12
4.43 YES		NO					
L0000242	0	0.24450E-02	473519.2	3674175.0	71.5	4.76	5.12
4.43 YES		NO					
L0000243	0	0.24450E-02	473529.2	3674179.5	71.8	4.76	5.12
4.43 YES		NO					
L0000244	0	0.24450E-02	473539.3	3674184.0	71.9	4.76	5.12
4.43 YES		NO					
L0000245	0	0.24450E-02	473549.3	3674188.4	72.4	4.76	5.12
4.43 YES		NO					
L0000246	0	0.24450E-02	473559.4	3674192.9	72.3	4.76	5.12
4.43 YES		NO					

L0000247	0	0.24450E-02	473569.4	3674197.4	72.8	4.76	5.12
4.43 YES		NO					
L0000248	0	0.24450E-02	473579.4	3674201.9	72.7	4.76	5.12
4.43 YES		NO					
L0000249	0	0.24450E-02	473589.5	3674206.3	73.1	4.76	5.12
4.43 YES		NO					
L0000250	0	0.24450E-02	473599.5	3674210.8	73.2	4.76	5.12
4.43 YES		NO					
L0000251	0	0.24450E-02	473609.6	3674215.3	73.5	4.76	5.12
4.43 YES		NO					
L0000252	0	0.24450E-02	473619.2	3674220.6	73.5	4.76	5.12
4.43 YES		NO					
L0000253	0	0.24450E-02	473628.6	3674226.3	74.0	4.76	5.12
4.43 YES		NO					
L0000254	0	0.24450E-02	473638.0	3674232.1	73.8	4.76	5.12
4.43 YES		NO					
L0000255	0	0.24450E-02	473647.4	3674237.8	74.4	4.76	5.12
4.43 YES		NO					
L0000256	0	0.24450E-02	473656.7	3674243.6	74.1	4.76	5.12
4.43 YES		NO					
L0000257	0	0.24450E-02	473666.1	3674249.3	74.8	4.76	5.12
4.43 YES		NO					
L0000258	0	0.24450E-02	473675.5	3674255.1	74.5	4.76	5.12
4.43 YES		NO					
L0000259	0	0.24450E-02	473684.7	3674261.1	75.1	4.76	5.12
4.43 YES		NO					
L0000260	0	0.24450E-02	473694.0	3674267.0	75.2	4.76	5.12
4.43 YES		NO					
L0000261	0	0.24450E-02	473703.2	3674272.9	75.3	4.76	5.12
4.43 YES		NO					
L0000262	0	0.24450E-02	473712.5	3674278.9	75.7	4.76	5.12
4.43 YES		NO					
L0000263	0	0.24450E-02	473721.7	3674284.8	75.5	4.76	5.12
4.43 YES		NO					
L0000264	0	0.24450E-02	473731.0	3674290.8	76.0	4.76	5.12
4.43 YES		NO					
L0000265	0	0.24450E-02	473740.3	3674296.7	75.9	4.76	5.12
4.43 YES		NO					
L0000266	0	0.24450E-02	473749.5	3674302.6	76.3	4.76	5.12
4.43 YES		NO					
L0000267	0	0.24450E-02	473758.8	3674308.6	76.5	4.76	5.12
4.43 YES		NO					
L0000268	0	0.24450E-02	473768.0	3674314.5	76.6	4.76	5.12
4.43 YES		NO					
L0000269	0	0.24450E-02	473777.3	3674320.5	77.0	4.76	5.12
4.43 YES		NO					
L0000270	0	0.24450E-02	473787.0	3674325.7	76.9	4.76	5.12
4.43 YES		NO					
L0000271	0	0.24450E-02	473796.7	3674330.9	77.5	4.76	5.12
4.43 YES		NO					

L0000272	0	0.24450E-02	473806.4	3674336.1	77.2	4.76	5.12
4.43 YES		NO					
L0000273	0	0.24450E-02	473816.1	3674341.3	77.8	4.76	5.12
4.43 YES		NO					
L0000274	0	0.24450E-02	473825.8	3674346.5	77.5	4.76	5.12
4.43 YES		NO					
L0000275	0	0.24450E-02	473835.5	3674351.7	77.9	4.76	5.12
4.43 YES		NO					
L0000276	0	0.24450E-02	473845.2	3674356.9	77.8	4.76	5.12
4.43 YES		NO					
L0000277	0	0.24450E-02	473854.8	3674362.1	78.0	4.76	5.12
4.43 YES		NO					
L0000278	0	0.24450E-02	473864.5	3674367.2	78.1	4.76	5.12
4.43 YES		NO					
L0000279	0	0.24450E-02	473873.8	3674373.1	78.1	4.76	5.12
4.43 YES		NO					
L0000280	0	0.24450E-02	473883.1	3674379.1	78.5	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000281	0	0.24450E-02	473892.3	3674385.0	78.3	4.76	5.12
4.43 YES		NO					
L0000282	0	0.24450E-02	473901.6	3674391.0	78.8	4.76	5.12
4.43 YES		NO					
L0000283	0	0.24450E-02	473910.9	3674396.9	78.6	4.76	5.12
4.43 YES		NO					
L0000284	0	0.24450E-02	473920.1	3674402.9	79.1	4.76	5.12
4.43 YES		NO					
L0000285	0	0.24450E-02	473929.4	3674408.8	78.9	4.76	5.12
4.43 YES		NO					
L0000286	0	0.24450E-02	473938.8	3674414.5	79.2	4.76	5.12
4.43 YES		NO					

L0000287	0	0.24450E-02	473948.6	3674419.4	79.2	4.76	5.12
4.43 YES		NO					
L0000288	0	0.24450E-02	473958.5	3674424.2	79.3	4.76	5.12
4.43 YES		NO					
L0000289	0	0.24450E-02	473968.4	3674429.1	79.5	4.76	5.12
4.43 YES		NO					
L0000290	0	0.24450E-02	473978.2	3674434.0	79.4	4.76	5.12
4.43 YES		NO					
L0000291	0	0.24450E-02	473988.1	3674438.8	79.6	4.76	5.12
4.43 YES		NO					
L0000292	0	0.24450E-02	473998.0	3674443.7	79.8	4.76	5.12
4.43 YES		NO					
L0000293	0	0.24450E-02	474007.8	3674448.7	79.8	4.76	5.12
4.43 YES		NO					
L0000294	0	0.24450E-02	474017.6	3674453.7	80.2	4.76	5.12
4.43 YES		NO					
L0000295	0	0.24450E-02	474027.4	3674458.7	80.1	4.76	5.12
4.43 YES		NO					
L0000296	0	0.24450E-02	474037.2	3674463.7	80.8	4.76	5.12
4.43 YES		NO					
L0000297	0	0.24450E-02	474047.7	3674466.7	80.5	4.76	5.12
4.43 YES		NO					
L0000298	0	0.24450E-02	474058.3	3674469.7	80.7	4.76	5.12
4.43 YES		NO					
L0000299	0	0.24450E-02	474068.9	3674472.7	81.3	4.76	5.12
4.43 YES		NO					
L0000300	0	0.24450E-02	474079.5	3674475.7	81.2	4.76	5.12
4.43 YES		NO					
L0000301	0	0.24450E-02	474090.1	3674478.7	81.3	4.76	5.12
4.43 YES		NO					
L0000302	0	0.24450E-02	474100.6	3674481.7	82.0	4.76	5.12
4.43 YES		NO					
L0000303	0	0.24450E-02	474111.2	3674484.7	82.2	4.76	5.12
4.43 YES		NO					
L0000304	0	0.24450E-02	474121.8	3674487.7	82.1	4.76	5.12
4.43 YES		NO					
L0000305	0	0.24450E-02	474132.5	3674490.1	82.3	4.76	5.12
4.43 YES		NO					
L0000306	0	0.24450E-02	474143.4	3674492.0	82.6	4.76	5.12
4.43 YES		NO					
L0000307	0	0.24450E-02	474154.2	3674493.8	83.2	4.76	5.12
4.43 YES		NO					
L0000308	0	0.24450E-02	474165.1	3674495.6	83.3	4.76	5.12
4.43 YES		NO					
L0000309	0	0.24450E-02	474176.0	3674497.0	83.2	4.76	5.12
4.43 YES		NO					
L0000310	0	0.24450E-02	474186.9	3674498.4	83.4	4.76	5.12
4.43 YES		NO					
L0000311	0	0.24450E-02	474197.8	3674499.9	83.5	4.76	5.12
4.43 YES		NO					

L0000312	0	0.24450E-02	474208.7	3674501.3	83.8	4.76	5.12
4.43 YES		NO					
L0000313	0	0.24450E-02	474219.6	3674502.7	84.3	4.76	5.12
4.43 YES		NO					
L0000314	0	0.24450E-02	474230.5	3674504.1	84.8	4.76	5.12
4.43 YES		NO					
L0000315	0	0.24450E-02	474241.4	3674505.7	84.9	4.76	5.12
4.43 YES		NO					
L0000316	0	0.24450E-02	474252.3	3674507.4	84.7	4.76	5.12
4.43 YES		NO					
L0000317	0	0.24450E-02	474263.1	3674509.0	84.5	4.76	5.12
4.43 YES		NO					
L0000318	0	0.24450E-02	474274.0	3674510.7	84.7	4.76	5.12
4.43 YES		NO					
L0000319	0	0.24450E-02	474284.8	3674512.8	85.5	4.76	5.12
4.43 YES		NO					
L0000320	0	0.24450E-02	474295.5	3674515.2	85.8	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000321	0	0.24450E-02	474306.3	3674517.6	85.3	4.76	5.12
4.43 YES		NO					
L0000322	0	0.24450E-02	474317.0	3674520.1	85.3	4.76	5.12
4.43 YES		NO					
L0000323	0	0.24450E-02	474327.4	3674523.4	86.3	4.76	5.12
4.43 YES		NO					
L0000324	0	0.24450E-02	474337.7	3674527.3	86.2	4.76	5.12
4.43 YES		NO					
L0000325	0	0.24450E-02	474348.0	3674531.1	86.3	4.76	5.12
4.43 YES		NO					
L0000326	0	0.24450E-02	474358.3	3674535.0	87.4	4.76	5.12
4.43 YES		NO					

L0000327	0	0.24450E-02	474368.6	3674538.9	86.6	4.76	5.12
4.43 YES		NO					
L0000328	0	0.24450E-02	474378.3	3674544.0	87.5	4.76	5.12
4.43 YES		NO					
L0000329	0	0.24450E-02	474387.9	3674549.4	87.4	4.76	5.12
4.43 YES		NO					
L0000330	0	0.24450E-02	474397.5	3674554.8	88.1	4.76	5.12
4.43 YES		NO					
L0000331	0	0.24450E-02	474407.1	3674560.2	88.0	4.76	5.12
4.43 YES		NO					
L0000332	0	0.24450E-02	474416.7	3674565.6	88.7	4.76	5.12
4.43 YES		NO					
L0000333	0	0.24450E-02	474426.3	3674571.0	88.5	4.76	5.12
4.43 YES		NO					
L0000334	0	0.24450E-02	474435.9	3674576.4	89.3	4.76	5.12
4.43 YES		NO					
L0000335	0	0.24450E-02	474445.5	3674581.8	88.9	4.76	5.12
4.43 YES		NO					
L0000336	0	0.24450E-02	474455.1	3674587.1	89.6	4.76	5.12
4.43 YES		NO					
L0000337	0	0.24450E-02	474464.6	3674592.5	89.3	4.76	5.12
4.43 YES		NO					
L0000338	0	0.24450E-02	474474.2	3674597.9	89.8	4.76	5.12
4.43 YES		NO					
L0000339	0	0.24450E-02	474483.8	3674603.3	89.6	4.76	5.12
4.43 YES		NO					
L0000340	0	0.24450E-02	474493.4	3674608.7	89.8	4.76	5.12
4.43 YES		NO					
L0000341	0	0.24450E-02	474503.0	3674614.1	90.1	4.76	5.12
4.43 YES		NO					
L0000342	0	0.24450E-02	474512.6	3674619.5	90.1	4.76	5.12
4.43 YES		NO					
L0000343	0	0.24450E-02	474522.2	3674624.9	90.7	4.76	5.12
4.43 YES		NO					
L0000344	0	0.24450E-02	474531.8	3674630.3	90.5	4.76	5.12
4.43 YES		NO					
L0000345	0	0.24450E-02	474541.4	3674635.6	91.3	4.76	5.12
4.43 YES		NO					
L0000346	0	0.24450E-02	474551.0	3674641.0	91.2	4.76	5.12
4.43 YES		NO					
L0000347	0	0.24450E-02	474561.0	3674645.4	91.5	4.76	5.12
4.43 YES		NO					
L0000348	0	0.24450E-02	474571.4	3674648.9	92.0	4.76	5.12
4.43 YES		NO					
L0000349	0	0.24450E-02	474581.8	3674652.4	91.5	4.76	5.12
4.43 YES		NO					
L0000350	0	0.24450E-02	474592.3	3674656.0	92.4	4.76	5.12
4.43 YES		NO					
L0000351	0	0.24450E-02	474602.7	3674659.5	92.6	4.76	5.12
4.43 YES		NO					

L0000352	0	0.24450E-02	474613.1	3674663.0	92.3	4.76	5.12
4.43 YES		NO					
L0000353	0	0.24450E-02	474623.5	3674666.6	93.1	4.76	5.12
4.43 YES		NO					
L0000354	0	0.24450E-02	474633.9	3674670.1	93.4	4.76	5.12
4.43 YES		NO					
L0000355	0	0.24450E-02	474644.4	3674673.6	93.1	4.76	5.12
4.43 YES		NO					
L0000356	0	0.24450E-02	474654.8	3674677.1	93.9	4.76	5.12
4.43 YES		NO					
L0000357	0	0.24450E-02	474664.9	3674681.3	94.0	4.76	5.12
4.43 YES		NO					
L0000358	0	0.24450E-02	474674.6	3674686.6	94.1	4.76	5.12
4.43 YES		NO					
L0000359	0	0.24450E-02	474684.2	3674691.9	94.6	4.76	5.12
4.43 YES		NO					
L0000360	0	0.24450E-02	474693.8	3674697.2	94.6	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000361	0	0.24450E-02	474703.4	3674702.6	95.1	4.76	5.12
4.43 YES		NO					
L0000362	0	0.24450E-02	474713.1	3674707.9	95.1	4.76	5.12
4.43 YES		NO					
L0000363	0	0.24450E-02	474722.7	3674713.2	95.5	4.76	5.12
4.43 YES		NO					
L0000364	0	0.24450E-02	474732.3	3674718.5	95.8	4.76	5.12
4.43 YES		NO					
L0000365	0	0.24450E-02	474741.9	3674723.9	95.6	4.76	5.12
4.43 YES		NO					
L0000366	0	0.24450E-02	474749.4	3674731.7	95.9	4.76	5.12
4.43 YES		NO					

L0000367	0	0.24450E-02	474756.0	3674740.4	96.7	4.76	5.12
4.43 YES		NO					
L0000368	0	0.24450E-02	474762.7	3674749.2	96.8	4.76	5.12
4.43 YES		NO					
L0000369	0	0.24450E-02	474769.3	3674758.0	96.7	4.76	5.12
4.43 YES		NO					
L0000370	0	0.24450E-02	474776.0	3674766.7	96.7	4.76	5.12
4.43 YES		NO					
L0000371	0	0.24450E-02	474782.6	3674775.5	97.1	4.76	5.12
4.43 YES		NO					
L0000372	0	0.24450E-02	474788.9	3674784.5	97.0	4.76	5.12
4.43 YES		NO					
L0000373	0	0.24450E-02	474791.3	3674795.2	97.5	4.76	5.12
4.43 YES		NO					
L0000374	0	0.24450E-02	474793.8	3674805.9	97.4	4.76	5.12
4.43 YES		NO					
L0000375	0	0.24450E-02	474796.2	3674816.6	98.0	4.76	5.12
4.43 YES		NO					
L0000376	0	0.24450E-02	474798.8	3674827.3	98.0	4.76	5.12
4.43 YES		NO					
L0000377	0	0.24450E-02	474802.2	3674837.8	97.8	4.76	5.12
4.43 YES		NO					
L0000378	0	0.24450E-02	474805.6	3674848.2	98.5	4.76	5.12
4.43 YES		NO					
L0000379	0	0.24450E-02	474809.0	3674858.7	98.3	4.76	5.12
4.43 YES		NO					
L0000380	0	0.24450E-02	474812.4	3674869.2	98.3	4.76	5.12
4.43 YES		NO					
L0000381	0	0.24450E-02	474815.8	3674879.6	98.8	4.76	5.12
4.43 YES		NO					
L0000382	0	0.24450E-02	474819.2	3674890.1	98.4	4.76	5.12
4.43 YES		NO					
L0000383	0	0.24450E-02	474822.6	3674900.5	98.5	4.76	5.12
4.43 YES		NO					
L0000384	0	0.24450E-02	474826.0	3674911.0	99.0	4.76	5.12
4.43 YES		NO					
L0000385	0	0.24450E-02	474829.4	3674921.5	98.4	4.76	5.12
4.43 YES		NO					
L0000386	0	0.24450E-02	474833.5	3674931.6	99.0	4.76	5.12
4.43 YES		NO					
L0000387	0	0.24450E-02	474838.3	3674941.6	99.2	4.76	5.12
4.43 YES		NO					
L0000388	0	0.24450E-02	474843.0	3674951.5	99.4	4.76	5.12
4.43 YES		NO					
L0000389	0	0.24450E-02	474847.7	3674961.4	99.5	4.76	5.12
4.43 YES		NO					
L0000390	0	0.24450E-02	474852.8	3674971.2	99.9	4.76	5.12
4.43 YES		NO					
L0000391	0	0.24450E-02	474858.0	3674980.9	100.1	4.76	5.12
4.43 YES		NO					

L0000392	0	0.24450E-02	474863.2	3674990.6	100.2	4.76	5.12
4.43 YES		NO					
L0000393	0	0.24450E-02	474868.4	3675000.3	100.3	4.76	5.12
4.43 YES		NO					
L0000394	0	0.24450E-02	474873.6	3675010.0	100.6	4.76	5.12
4.43 YES		NO					
L0000395	0	0.24450E-02	474880.6	3675018.4	100.6	4.76	5.12
4.43 YES		NO					
L0000396	0	0.24450E-02	474888.2	3675026.3	100.8	4.76	5.12
4.43 YES		NO					
L0000397	0	0.24450E-02	474895.8	3675034.2	100.9	4.76	5.12
4.43 YES		NO					
L0000398	0	0.24450E-02	474903.5	3675042.1	101.1	4.76	5.12
4.43 YES		NO					
L0000399	0	0.24450E-02	474911.1	3675050.0	101.4	4.76	5.12
4.43 YES		NO					
L0000400	0	0.24450E-02	474918.7	3675058.0	101.7	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000401	0	0.24450E-02	474926.0	3675066.2	101.8	4.76	5.12
4.43 YES		NO					
L0000402	0	0.24450E-02	474932.9	3675074.8	101.8	4.76	5.12
4.43 YES		NO					
L0000403	0	0.24450E-02	474939.8	3675083.3	102.0	4.76	5.12
4.43 YES		NO					
L0000404	0	0.24450E-02	474946.8	3675091.9	102.3	4.76	5.12
4.43 YES		NO					
L0000405	0	0.24450E-02	474953.7	3675100.4	102.7	4.76	5.12
4.43 YES		NO					
L0000406	0	0.24450E-02	474960.6	3675108.9	102.8	4.76	5.12
4.43 YES		NO					

L0000407	0	0.24450E-02	474967.9	3675117.2	102.8	4.76	5.12
4.43 YES		NO					
L0000408	0	0.24450E-02	474975.1	3675125.5	103.6	4.76	5.12
4.43 YES		NO					
L0000409	0	0.24450E-02	474982.4	3675133.8	103.9	4.76	5.12
4.43 YES		NO					
L0000410	0	0.24814E-02	474985.1	3675138.9	104.0	4.76	5.12
4.43 YES		NO					
L0000411	0	0.24814E-02	474978.1	3675130.4	103.8	4.76	5.12
4.43 YES		NO					
L0000412	0	0.24814E-02	474971.1	3675121.9	103.4	4.76	5.12
4.43 YES		NO					
L0000413	0	0.24814E-02	474964.1	3675113.4	102.7	4.76	5.12
4.43 YES		NO					
L0000414	0	0.24814E-02	474957.1	3675105.0	102.5	4.76	5.12
4.43 YES		NO					
L0000415	0	0.24814E-02	474950.1	3675096.5	102.3	4.76	5.12
4.43 YES		NO					
L0000416	0	0.24814E-02	474943.1	3675088.0	102.2	4.76	5.12
4.43 YES		NO					
L0000417	0	0.24814E-02	474936.2	3675079.5	102.2	4.76	5.12
4.43 YES		NO					
L0000418	0	0.24814E-02	474929.2	3675071.0	101.9	4.76	5.12
4.43 YES		NO					
L0000419	0	0.24814E-02	474922.2	3675062.5	101.6	4.76	5.12
4.43 YES		NO					
L0000420	0	0.24814E-02	474915.2	3675054.0	101.4	4.76	5.12
4.43 YES		NO					
L0000421	0	0.24814E-02	474907.8	3675045.9	101.2	4.76	5.12
4.43 YES		NO					
L0000422	0	0.24814E-02	474900.4	3675037.7	101.1	4.76	5.12
4.43 YES		NO					
L0000423	0	0.24814E-02	474893.0	3675029.5	100.8	4.76	5.12
4.43 YES		NO					
L0000424	0	0.24814E-02	474885.7	3675021.4	100.7	4.76	5.12
4.43 YES		NO					
L0000425	0	0.24814E-02	474878.3	3675013.2	100.5	4.76	5.12
4.43 YES		NO					
L0000426	0	0.24814E-02	474872.8	3675003.8	100.3	4.76	5.12
4.43 YES		NO					
L0000427	0	0.24814E-02	474867.9	3674993.9	100.2	4.76	5.12
4.43 YES		NO					
L0000428	0	0.24814E-02	474863.0	3674984.1	100.1	4.76	5.12
4.43 YES		NO					
L0000429	0	0.24814E-02	474858.1	3674974.2	99.8	4.76	5.12
4.43 YES		NO					
L0000430	0	0.24814E-02	474853.2	3674964.4	99.4	4.76	5.12
4.43 YES		NO					
L0000431	0	0.24814E-02	474848.3	3674954.5	99.1	4.76	5.12
4.43 YES		NO					

L0000432	0	0.24814E-02	474843.5	3674944.6	98.9	4.76	5.12
4.43 YES		NO					
L0000433	0	0.24814E-02	474838.7	3674934.7	98.1	4.76	5.12
4.43 YES		NO					
L0000434	0	0.24814E-02	474833.8	3674924.9	98.0	4.76	5.12
4.43 YES		NO					
L0000435	0	0.24814E-02	474829.3	3674914.9	97.9	4.76	5.12
4.43 YES		NO					
L0000436	0	0.24814E-02	474826.0	3674904.4	98.4	4.76	5.12
4.43 YES		NO					
L0000437	0	0.24814E-02	474822.8	3674893.9	98.0	4.76	5.12
4.43 YES		NO					
L0000438	0	0.24814E-02	474819.5	3674883.4	98.3	4.76	5.12
4.43 YES		NO					
L0000439	0	0.24814E-02	474816.2	3674872.9	98.5	4.76	5.12
4.43 YES		NO					
L0000440	0	0.24814E-02	474812.9	3674862.4	98.1	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000441	0	0.24814E-02	474809.6	3674851.9	98.3	4.76	5.12
4.43 YES		NO					
L0000442	0	0.24814E-02	474806.8	3674841.2	98.3	4.76	5.12
4.43 YES		NO					
L0000443	0	0.24814E-02	474803.9	3674830.6	97.6	4.76	5.12
4.43 YES		NO					
L0000444	0	0.24814E-02	474801.1	3674820.0	97.8	4.76	5.12
4.43 YES		NO					
L0000445	0	0.24814E-02	474798.3	3674809.3	97.7	4.76	5.12
4.43 YES		NO					
L0000446	0	0.24814E-02	474795.2	3674798.8	97.0	4.76	5.12
4.43 YES		NO					

L0000447	0	0.24814E-02	474790.2	3674789.0	97.4	4.76	5.12
4.43 YES		NO					
L0000448	0	0.24814E-02	474785.2	3674779.2	97.0	4.76	5.12
4.43 YES		NO					
L0000449	0	0.24814E-02	474780.2	3674769.4	96.7	4.76	5.12
4.43 YES		NO					
L0000450	0	0.24814E-02	474775.2	3674759.6	96.6	4.76	5.12
4.43 YES		NO					
L0000451	0	0.24814E-02	474769.2	3674750.6	96.3	4.76	5.12
4.43 YES		NO					
L0000452	0	0.24814E-02	474761.4	3674742.8	96.2	4.76	5.12
4.43 YES		NO					
L0000453	0	0.24814E-02	474753.7	3674735.0	96.1	4.76	5.12
4.43 YES		NO					
L0000454	0	0.24814E-02	474745.9	3674727.2	95.8	4.76	5.12
4.43 YES		NO					
L0000455	0	0.24814E-02	474738.1	3674719.4	95.6	4.76	5.12
4.43 YES		NO					
L0000456	0	0.24814E-02	474729.9	3674712.2	95.2	4.76	5.12
4.43 YES		NO					
L0000457	0	0.24814E-02	474720.7	3674706.1	95.2	4.76	5.12
4.43 YES		NO					
L0000458	0	0.24814E-02	474711.5	3674700.1	94.8	4.76	5.12
4.43 YES		NO					
L0000459	0	0.24814E-02	474702.3	3674694.0	94.4	4.76	5.12
4.43 YES		NO					
L0000460	0	0.24814E-02	474693.2	3674688.0	94.3	4.76	5.12
4.43 YES		NO					
L0000461	0	0.24814E-02	474683.1	3674683.8	93.7	4.76	5.12
4.43 YES		NO					
L0000462	0	0.24814E-02	474672.6	3674680.6	93.5	4.76	5.12
4.43 YES		NO					
L0000463	0	0.24814E-02	474662.0	3674677.4	94.2	4.76	5.12
4.43 YES		NO					
L0000464	0	0.24814E-02	474651.5	3674674.3	93.1	4.76	5.12
4.43 YES		NO					
L0000465	0	0.24814E-02	474641.0	3674671.1	93.0	4.76	5.12
4.43 YES		NO					
L0000466	0	0.24814E-02	474630.4	3674667.9	93.6	4.76	5.12
4.43 YES		NO					
L0000467	0	0.24814E-02	474619.9	3674664.7	92.5	4.76	5.12
4.43 YES		NO					
L0000468	0	0.24814E-02	474609.4	3674661.5	92.3	4.76	5.12
4.43 YES		NO					
L0000469	0	0.24814E-02	474598.9	3674658.2	92.9	4.76	5.12
4.43 YES		NO					
L0000470	0	0.24814E-02	474588.6	3674654.5	91.8	4.76	5.12
4.43 YES		NO					
L0000471	0	0.24814E-02	474578.2	3674650.7	91.6	4.76	5.12
4.43 YES		NO					

L0000472	0	0.24814E-02	474567.9	3674647.0	92.1	4.76	5.12
4.43 YES		NO					
L0000473	0	0.24814E-02	474557.5	3674643.2	91.0	4.76	5.12
4.43 YES		NO					
L0000474	0	0.24814E-02	474547.9	3674638.0	91.4	4.76	5.12
4.43 YES		NO					
L0000475	0	0.24814E-02	474538.5	3674632.3	90.4	4.76	5.12
4.43 YES		NO					
L0000476	0	0.24814E-02	474529.0	3674626.6	90.5	4.76	5.12
4.43 YES		NO					
L0000477	0	0.24814E-02	474519.6	3674621.0	89.7	4.76	5.12
4.43 YES		NO					
L0000478	0	0.24814E-02	474509.9	3674615.8	90.0	4.76	5.12
4.43 YES		NO					
L0000479	0	0.24814E-02	474500.2	3674610.6	89.4	4.76	5.12
4.43 YES		NO					
L0000480	0	0.24814E-02	474490.5	3674605.4	89.9	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SOURCE	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0000481	0	0.24814E-02	474480.8	3674600.2	89.4	4.76	5.12
4.43 YES		NO					
L0000482	0	0.24814E-02	474471.1	3674595.1	89.8	4.76	5.12
4.43 YES		NO					
L0000483	0	0.24814E-02	474461.4	3674589.9	89.3	4.76	5.12
4.43 YES		NO					
L0000484	0	0.24814E-02	474451.7	3674584.8	89.3	4.76	5.12
4.43 YES		NO					
L0000485	0	0.24814E-02	474441.9	3674579.7	88.9	4.76	5.12
4.43 YES		NO					
L0000486	0	0.24814E-02	474432.1	3674574.6	88.8	4.76	5.12
4.43 YES		NO					

L0000487	0	0.24814E-02	474422.4	3674569.5	88.6	4.76	5.12
4.43 YES		NO					
L0000488	0	0.24814E-02	474412.6	3674564.4	88.3	4.76	5.12
4.43 YES		NO					
L0000489	0	0.24814E-02	474402.8	3674559.5	88.2	4.76	5.12
4.43 YES		NO					
L0000490	0	0.24814E-02	474392.8	3674554.9	87.8	4.76	5.12
4.43 YES		NO					
L0000491	0	0.24814E-02	474382.8	3674550.3	87.7	4.76	5.12
4.43 YES		NO					
L0000492	0	0.24814E-02	474372.8	3674545.7	87.7	4.76	5.12
4.43 YES		NO					
L0000493	0	0.24814E-02	474362.8	3674541.1	87.0	4.76	5.12
4.43 YES		NO					
L0000494	0	0.24814E-02	474352.8	3674536.5	87.3	4.76	5.12
4.43 YES		NO					
L0000495	0	0.24814E-02	474342.9	3674531.9	86.4	4.76	5.12
4.43 YES		NO					
L0000496	0	0.24814E-02	474332.5	3674528.1	86.5	4.76	5.12
4.43 YES		NO					
L0000497	0	0.24814E-02	474322.1	3674524.7	86.6	4.76	5.12
4.43 YES		NO					
L0000498	0	0.24814E-02	474311.6	3674521.3	85.6	4.76	5.12
4.43 YES		NO					
L0000499	0	0.24814E-02	474301.2	3674517.9	85.6	4.76	5.12
4.43 YES		NO					
L0000500	0	0.24814E-02	474290.7	3674514.5	86.0	4.76	5.12
4.43 YES		NO					
L0000501	0	0.24814E-02	474280.2	3674511.1	84.9	4.76	5.12
4.43 YES		NO					
L0000502	0	0.24814E-02	474269.8	3674507.7	84.2	4.76	5.12
4.43 YES		NO					
L0000503	0	0.24814E-02	474259.1	3674505.1	84.3	4.76	5.12
4.43 YES		NO					
L0000504	0	0.24814E-02	474248.2	3674503.8	84.6	4.76	5.12
4.43 YES		NO					
L0000505	0	0.24814E-02	474237.3	3674502.6	84.5	4.76	5.12
4.43 YES		NO					
L0000506	0	0.24814E-02	474226.4	3674501.3	84.3	4.76	5.12
4.43 YES		NO					
L0000507	0	0.24814E-02	474215.4	3674500.1	83.9	4.76	5.12
4.43 YES		NO					
L0000508	0	0.24814E-02	474204.5	3674498.8	83.6	4.76	5.12
4.43 YES		NO					
L0000509	0	0.24814E-02	474193.6	3674497.6	83.4	4.76	5.12
4.43 YES		NO					
L0000510	0	0.24814E-02	474182.6	3674496.3	83.3	4.76	5.12
4.43 YES		NO					
L0000511	0	0.24814E-02	474171.7	3674495.0	83.4	4.76	5.12
4.43 YES		NO					

L0000512	0	0.24814E-02	474160.8	3674493.7	83.4	4.76	5.12
4.43 YES		NO					
L0000513	0	0.24814E-02	474149.9	3674492.5	82.9	4.76	5.12
4.43 YES		NO					
L0000514	0	0.24814E-02	474138.9	3674491.2	82.4	4.76	5.12
4.43 YES		NO					
L0000515	0	0.24814E-02	474128.2	3674488.9	82.2	4.76	5.12
4.43 YES		NO					
L0000516	0	0.24814E-02	474117.5	3674486.5	82.1	4.76	5.12
4.43 YES		NO					
L0000517	0	0.24814E-02	474106.7	3674484.0	82.3	4.76	5.12
4.43 YES		NO					
L0000518	0	0.24814E-02	474096.0	3674481.6	81.8	4.76	5.12
4.43 YES		NO					
L0000519	0	0.24814E-02	474085.3	3674479.1	81.3	4.76	5.12
4.43 YES		NO					
L0000520	0	0.24814E-02	474074.6	3674476.7	81.3	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000521	0	0.24814E-02	474063.8	3674474.2	81.4	4.76	5.12
4.43 YES		NO					
L0000522	0	0.24814E-02	474053.3	3674471.2	80.6	4.76	5.12
4.43 YES		NO					
L0000523	0	0.24814E-02	474043.5	3674466.2	80.6	4.76	5.12
4.43 YES		NO					
L0000524	0	0.24814E-02	474033.7	3674461.2	80.4	4.76	5.12
4.43 YES		NO					
L0000525	0	0.24814E-02	474023.9	3674456.2	80.0	4.76	5.12
4.43 YES		NO					
L0000526	0	0.24814E-02	474014.1	3674451.2	80.1	4.76	5.12
4.43 YES		NO					

L0000527	0	0.24814E-02	474004.4	3674446.2	79.6	4.76	5.12
4.43 YES		NO					
L0000528	0	0.24814E-02	473994.6	3674441.2	79.8	4.76	5.12
4.43 YES		NO					
L0000529	0	0.24814E-02	473984.8	3674436.2	79.5	4.76	5.12
4.43 YES		NO					
L0000530	0	0.24814E-02	473975.0	3674431.2	79.5	4.76	5.12
4.43 YES		NO					
L0000531	0	0.24814E-02	473965.2	3674426.2	79.2	4.76	5.12
4.43 YES		NO					
L0000532	0	0.24814E-02	473955.3	3674421.4	79.4	4.76	5.12
4.43 YES		NO					
L0000533	0	0.24814E-02	473945.3	3674416.8	79.0	4.76	5.12
4.43 YES		NO					
L0000534	0	0.24814E-02	473935.3	3674412.2	79.4	4.76	5.12
4.43 YES		NO					
L0000535	0	0.24814E-02	473925.3	3674407.6	78.8	4.76	5.12
4.43 YES		NO					
L0000536	0	0.24814E-02	473915.3	3674403.0	79.0	4.76	5.12
4.43 YES		NO					
L0000537	0	0.24814E-02	473905.5	3674398.0	78.6	4.76	5.12
4.43 YES		NO					
L0000538	0	0.24814E-02	473896.2	3674392.2	78.7	4.76	5.12
4.43 YES		NO					
L0000539	0	0.24814E-02	473886.8	3674386.4	78.5	4.76	5.12
4.43 YES		NO					
L0000540	0	0.24814E-02	473877.5	3674380.5	78.3	4.76	5.12
4.43 YES		NO					
L0000541	0	0.24814E-02	473868.2	3674374.7	78.4	4.76	5.12
4.43 YES		NO					
L0000542	0	0.24814E-02	473858.9	3674368.9	78.0	4.76	5.12
4.43 YES		NO					
L0000543	0	0.24814E-02	473849.5	3674363.0	78.3	4.76	5.12
4.43 YES		NO					
L0000544	0	0.24814E-02	473840.2	3674357.2	77.7	4.76	5.12
4.43 YES		NO					
L0000545	0	0.24814E-02	473830.9	3674351.4	78.1	4.76	5.12
4.43 YES		NO					
L0000546	0	0.24814E-02	473821.5	3674345.6	77.5	4.76	5.12
4.43 YES		NO					
L0000547	0	0.24814E-02	473812.2	3674339.7	77.6	4.76	5.12
4.43 YES		NO					
L0000548	0	0.24814E-02	473802.9	3674333.9	77.3	4.76	5.12
4.43 YES		NO					
L0000549	0	0.24814E-02	473793.5	3674328.1	77.1	4.76	5.12
4.43 YES		NO					
L0000550	0	0.24814E-02	473784.2	3674322.3	77.0	4.76	5.12
4.43 YES		NO					
L0000551	0	0.24814E-02	473774.9	3674316.4	76.6	4.76	5.12
4.43 YES		NO					

L0000552	0	0.24814E-02	473765.5	3674310.6	76.7	4.76	5.12
4.43 YES		NO					
L0000553	0	0.24814E-02	473756.2	3674304.8	76.2	4.76	5.12
4.43 YES		NO					
L0000554	0	0.24814E-02	473746.9	3674299.0	76.3	4.76	5.12
4.43 YES		NO					
L0000555	0	0.24814E-02	473737.6	3674293.1	75.7	4.76	5.12
4.43 YES		NO					
L0000556	0	0.24814E-02	473728.2	3674287.3	75.9	4.76	5.12
4.43 YES		NO					
L0000557	0	0.24814E-02	473718.9	3674281.5	75.5	4.76	5.12
4.43 YES		NO					
L0000558	0	0.24814E-02	473709.6	3674275.7	75.3	4.76	5.12
4.43 YES		NO					
L0000559	0	0.24814E-02	473700.2	3674269.8	75.4	4.76	5.12
4.43 YES		NO					
L0000560	0	0.24814E-02	473690.9	3674264.0	74.9	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000561	0	0.24814E-02	473681.9	3674257.7	75.1	4.76	5.12
4.43 YES		NO					
L0000562	0	0.24814E-02	473672.8	3674251.5	74.4	4.76	5.12
4.43 YES		NO					
L0000563	0	0.24814E-02	473663.8	3674245.2	74.6	4.76	5.12
4.43 YES		NO					
L0000564	0	0.24814E-02	473654.8	3674238.9	74.0	4.76	5.12
4.43 YES		NO					
L0000565	0	0.24814E-02	473645.7	3674232.6	74.1	4.76	5.12
4.43 YES		NO					
L0000566	0	0.24814E-02	473636.7	3674226.3	73.8	4.76	5.12
4.43 YES		NO					

L0000567	0	0.24814E-02	473627.7	3674220.0	73.6	4.76	5.12
4.43 YES		NO					
L0000568	0	0.24814E-02	473617.5	3674216.0	73.6	4.76	5.12
4.43 YES		NO					
L0000569	0	0.24814E-02	473607.3	3674211.9	73.1	4.76	5.12
4.43 YES		NO					
L0000570	0	0.24814E-02	473597.0	3674207.9	73.3	4.76	5.12
4.43 YES		NO					
L0000571	0	0.24814E-02	473586.8	3674203.8	73.0	4.76	5.12
4.43 YES		NO					
L0000572	0	0.24814E-02	473576.6	3674199.8	72.7	4.76	5.12
4.43 YES		NO					
L0000573	0	0.24814E-02	473566.3	3674195.7	72.6	4.76	5.12
4.43 YES		NO					
L0000574	0	0.24814E-02	473556.1	3674191.7	72.3	4.76	5.12
4.43 YES		NO					
L0000575	0	0.24814E-02	473545.9	3674187.6	72.3	4.76	5.12
4.43 YES		NO					
L0000576	0	0.24814E-02	473535.6	3674183.6	71.8	4.76	5.12
4.43 YES		NO					
L0000577	0	0.24814E-02	473525.4	3674179.6	71.8	4.76	5.12
4.43 YES		NO					
L0000578	0	0.24814E-02	473515.2	3674175.5	71.4	4.76	5.12
4.43 YES		NO					
L0000579	0	0.24814E-02	473505.3	3674170.8	71.3	4.76	5.12
4.43 YES		NO					
L0000580	0	0.24814E-02	473495.8	3674165.2	71.2	4.76	5.12
4.43 YES		NO					
L0000581	0	0.24814E-02	473486.3	3674159.6	71.1	4.76	5.12
4.43 YES		NO					
L0000582	0	0.24814E-02	473476.9	3674154.0	71.0	4.76	5.12
4.43 YES		NO					
L0000583	0	0.24814E-02	473467.4	3674148.4	71.0	4.76	5.12
4.43 YES		NO					
L0000584	0	0.24814E-02	473457.9	3674142.8	71.0	4.76	5.12
4.43 YES		NO					
L0000585	0	0.24814E-02	473448.4	3674137.3	70.9	4.76	5.12
4.43 YES		NO					
L0000586	0	0.24814E-02	473438.3	3674133.0	70.9	4.76	5.12
4.43 YES		NO					
L0000587	0	0.24814E-02	473428.2	3674128.7	70.7	4.76	5.12
4.43 YES		NO					
L0000588	0	0.24814E-02	473418.0	3674124.5	70.4	4.76	5.12
4.43 YES		NO					
L0000589	0	0.24814E-02	473407.9	3674120.2	70.0	4.76	5.12
4.43 YES		NO					
L0000590	0	0.24814E-02	473397.7	3674115.9	70.2	4.76	5.12
4.43 YES		NO					
L0000591	0	0.24814E-02	473387.6	3674111.7	69.8	4.76	5.12
4.43 YES		NO					

L0000592	0	0.24814E-02	473377.5	3674107.4	69.9	4.76	5.12
4.43 YES		NO					
L0000593	0	0.24814E-02	473367.3	3674103.1	69.7	4.76	5.12
4.43 YES		NO					
L0000594	0	0.24814E-02	473357.2	3674098.9	69.7	4.76	5.12
4.43 YES		NO					
L0000595	0	0.24814E-02	473347.1	3674094.6	69.5	4.76	5.12
4.43 YES		NO					
L0000596	0	0.24814E-02	473336.9	3674090.3	69.4	4.76	5.12
4.43 YES		NO					
L0000597	0	0.24814E-02	473326.8	3674086.1	69.4	4.76	5.12
4.43 YES		NO					
L0000598	0	0.24814E-02	473316.6	3674081.8	69.3	4.76	5.12
4.43 YES		NO					
L0000599	0	0.24814E-02	473306.5	3674077.5	69.2	4.76	5.12
4.43 YES		NO					
L0000600	0	0.24814E-02	473296.4	3674073.3	69.0	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR	VARY			(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0000601	0	0.24814E-02	473286.3	3674068.8	69.1	4.76	5.12
4.43 YES		NO					
L0000602	0	0.24814E-02	473276.3	3674064.3	68.9	4.76	5.12
4.43 YES		NO					
L0000603	0	0.24814E-02	473266.2	3674059.8	68.9	4.76	5.12
4.43 YES		NO					
L0000604	0	0.24814E-02	473256.2	3674055.3	68.8	4.76	5.12
4.43 YES		NO					
L0000605	0	0.24814E-02	473246.2	3674050.7	68.7	4.76	5.12
4.43 YES		NO					
L0000606	0	0.24814E-02	473236.2	3674046.2	68.6	4.76	5.12
4.43 YES		NO					

L0000607	0	0.24814E-02	473226.1	3674041.7	68.7	4.76	5.12
4.43 YES		NO					
L0000608	0	0.24814E-02	473216.1	3674037.2	68.5	4.76	5.12
4.43 YES		NO					
L0000609	0	0.24814E-02	473206.1	3674032.7	68.5	4.76	5.12
4.43 YES		NO					
L0000610	0	0.24814E-02	473196.0	3674028.1	68.3	4.76	5.12
4.43 YES		NO					
L0000611	0	0.24814E-02	473186.0	3674023.6	68.3	4.76	5.12
4.43 YES		NO					
L0000612	0	0.24814E-02	473176.0	3674019.1	68.4	4.76	5.12
4.43 YES		NO					
L0000613	0	0.24814E-02	473166.0	3674014.6	68.1	4.76	5.12
4.43 YES		NO					
L0000614	0	0.24814E-02	473155.9	3674010.0	68.3	4.76	5.12
4.43 YES		NO					
L0000615	0	0.24814E-02	473146.0	3674005.4	67.9	4.76	5.12
4.43 YES		NO					
L0000616	0	0.24814E-02	473136.0	3674000.6	68.0	4.76	5.12
4.43 YES		NO					
L0000617	0	0.24814E-02	473126.1	3673995.9	67.7	4.76	5.12
4.43 YES		NO					
L0000618	0	0.24814E-02	473116.2	3673991.2	68.1	4.76	5.12
4.43 YES		NO					
L0000619	0	0.24814E-02	473106.3	3673986.4	67.6	4.76	5.12
4.43 YES		NO					
L0000620	0	0.24814E-02	473096.4	3673981.7	67.5	4.76	5.12
4.43 YES		NO					
L0000621	0	0.24814E-02	473086.4	3673976.9	67.4	4.76	5.12
4.43 YES		NO					
L0000622	0	0.24814E-02	473076.5	3673972.2	67.3	4.76	5.12
4.43 YES		NO					
L0000623	0	0.24814E-02	473066.6	3673967.4	67.2	4.76	5.12
4.43 YES		NO					
L0000624	0	0.24814E-02	473056.7	3673962.7	67.1	4.76	5.12
4.43 YES		NO					
L0000625	0	0.24814E-02	473046.7	3673957.9	67.1	4.76	5.12
4.43 YES		NO					
L0000626	0	0.24814E-02	473036.8	3673953.2	67.0	4.76	5.12
4.43 YES		NO					
L0000627	0	0.24814E-02	473026.9	3673948.4	66.9	4.76	5.12
4.43 YES		NO					
L0000628	0	0.24814E-02	473016.6	3673944.5	66.8	4.76	5.12
4.43 YES		NO					
L0000629	0	0.24814E-02	473006.3	3673940.7	66.5	4.76	5.12
4.43 YES		NO					
L0000630	0	0.24814E-02	472996.0	3673936.8	66.4	4.76	5.12
4.43 YES		NO					
L0000631	0	0.24814E-02	472985.7	3673933.0	66.3	4.76	5.12
4.43 YES		NO					

L0000632	0	0.24814E-02	472975.4	3673929.2	66.0	4.76	5.12
4.43 YES		NO					
L0000633	0	0.24814E-02	472965.1	3673925.4	66.0	4.76	5.12
4.43 YES		NO					
L0000634	0	0.24814E-02	472954.7	3673921.6	65.8	4.76	5.12
4.43 YES		NO					
L0000635	0	0.24814E-02	472944.4	3673917.7	65.6	4.76	5.12
4.43 YES		NO					
L0000636	0	0.24814E-02	472934.1	3673913.9	65.1	4.76	5.12
4.43 YES		NO					
L0000637	0	0.24814E-02	472923.8	3673910.1	65.2	4.76	5.12
4.43 YES		NO					
L0000638	0	0.24814E-02	472913.5	3673906.3	64.6	4.76	5.12
4.43 YES		NO					
L0000639	0	0.24814E-02	472903.2	3673902.5	64.9	4.76	5.12
4.43 YES		NO					
L0000640	0	0.24814E-02	472892.8	3673898.6	64.1	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT				
SOURCE		PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY					
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000641	0	0.24814E-02	472882.5	3673894.8	64.1	4.76	5.12
4.43 YES		NO					
L0000642	0	0.24814E-02	472872.3	3673890.8	64.2	4.76	5.12
4.43 YES		NO					
L0000643	0	0.24814E-02	472862.2	3673886.5	63.5	4.76	5.12
4.43 YES		NO					
L0000644	0	0.24814E-02	472852.1	3673882.2	64.0	4.76	5.12
4.43 YES		NO					
L0000645	0	0.24814E-02	472841.9	3673877.9	63.9	4.76	5.12
4.43 YES		NO					
L0000646	0	0.24814E-02	472831.8	3673873.6	63.6	4.76	5.12
4.43 YES		NO					

L0000647	0	0.24814E-02	472821.7	3673869.3	64.0	4.76	5.12
4.43 YES		NO					
L0000648	0	0.24814E-02	472811.5	3673865.0	64.1	4.76	5.12
4.43 YES		NO					
L0000649	0	0.24814E-02	472801.4	3673860.7	63.7	4.76	5.12
4.43 YES		NO					
L0000650	0	0.24814E-02	472791.3	3673856.4	63.8	4.76	5.12
4.43 YES		NO					
L0000651	0	0.24814E-02	472780.8	3673853.3	63.9	4.76	5.12
4.43 YES		NO					
L0000652	0	0.24814E-02	472770.0	3673851.3	63.5	4.76	5.12
4.43 YES		NO					
L0000653	0	0.24814E-02	472759.2	3673849.3	63.3	4.76	5.12
4.43 YES		NO					
L0000654	0	0.24814E-02	472748.4	3673847.3	63.2	4.76	5.12
4.43 YES		NO					
L0000655	0	0.24814E-02	472737.5	3673845.3	63.2	4.76	5.12
4.43 YES		NO					
L0000656	0	0.24814E-02	472726.7	3673843.3	63.2	4.76	5.12
4.43 YES		NO					
L0000657	0	0.24814E-02	472715.9	3673841.3	63.2	4.76	5.12
4.43 YES		NO					
L0000658	0	0.24814E-02	472705.1	3673839.3	62.8	4.76	5.12
4.43 YES		NO					
L0000659	0	0.24814E-02	472694.3	3673837.3	62.6	4.76	5.12
4.43 YES		NO					
L0000660	0	0.24814E-02	472683.5	3673835.3	62.7	4.76	5.12
4.43 YES		NO					
L0000661	0	0.24814E-02	472672.5	3673834.4	62.5	4.76	5.12
4.43 YES		NO					
L0000662	0	0.24814E-02	472661.5	3673833.7	62.4	4.76	5.12
4.43 YES		NO					
L0000663	0	0.24814E-02	472650.6	3673833.0	62.3	4.76	5.12
4.43 YES		NO					
L0000664	0	0.24814E-02	472639.6	3673832.2	62.3	4.76	5.12
4.43 YES		NO					
L0000665	0	0.24814E-02	472628.6	3673831.5	62.2	4.76	5.12
4.43 YES		NO					
L0000666	0	0.24814E-02	472617.6	3673830.8	62.0	4.76	5.12
4.43 YES		NO					
L0000667	0	0.24814E-02	472606.6	3673830.0	61.7	4.76	5.12
4.43 YES		NO					
L0000668	0	0.24814E-02	472595.7	3673829.3	61.5	4.76	5.12
4.43 YES		NO					
L0000669	0	0.24814E-02	472584.7	3673828.6	61.4	4.76	5.12
4.43 YES		NO					
L0000670	0	0.24814E-02	472573.7	3673827.8	61.2	4.76	5.12
4.43 YES		NO					
L0000671	0	0.24814E-02	472562.7	3673827.1	61.0	4.76	5.12
4.43 YES		NO					

L0000672	0	0.24814E-02	472551.8	3673826.4	60.8	4.76	5.12
4.43 YES		NO					
L0000673	0	0.24814E-02	472540.8	3673825.6	60.8	4.76	5.12
4.43 YES		NO					
L0000674	0	0.24814E-02	472529.8	3673824.9	60.8	4.76	5.12
4.43 YES		NO					
L0000675	0	0.24814E-02	472518.8	3673824.2	60.7	4.76	5.12
4.43 YES		NO					
L0000676	0	0.24814E-02	472507.9	3673823.4	60.6	4.76	5.12
4.43 YES		NO					
L0000677	0	0.24814E-02	472496.9	3673822.7	60.6	4.76	5.12
4.43 YES		NO					
L0000678	0	0.24814E-02	472485.9	3673822.0	60.5	4.76	5.12
4.43 YES		NO					
L0000679	0	0.24814E-02	472474.9	3673821.3	60.3	4.76	5.12
4.43 YES		NO					
L0000680	0	0.24814E-02	472464.0	3673820.8	60.1	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	SOURCE	EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.		(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000681	0	0.24814E-02	472453.0	3673820.3	59.9	4.76	5.12
4.43 YES		NO					
L0000682	0	0.24814E-02	472442.0	3673819.8	59.8	4.76	5.12
4.43 YES		NO					
L0000683	0	0.24814E-02	472431.0	3673819.4	59.6	4.76	5.12
4.43 YES		NO					
L0000684	0	0.24814E-02	472420.0	3673818.9	59.3	4.76	5.12
4.43 YES		NO					
L0000685	0	0.24814E-02	472409.0	3673818.4	59.1	4.76	5.12
4.43 YES		NO					
L0000686	0	0.24814E-02	472398.0	3673817.9	59.0	4.76	5.12
4.43 YES		NO					

L0000687	0	0.24814E-02	472387.0	3673817.4	58.9	4.76	5.12
4.43 YES		NO					
L0000688	0	0.24814E-02	472376.0	3673817.0	58.8	4.76	5.12
4.43 YES		NO					
L0000689	0	0.24814E-02	472365.0	3673816.5	58.6	4.76	5.12
4.43 YES		NO					
L0000690	0	0.24814E-02	472354.1	3673816.0	58.5	4.76	5.12
4.43 YES		NO					
L0000691	0	0.24814E-02	472343.1	3673815.3	58.4	4.76	5.12
4.43 YES		NO					
L0000692	0	0.24814E-02	472332.1	3673814.5	58.4	4.76	5.12
4.43 YES		NO					
L0000693	0	0.24814E-02	472321.1	3673813.7	58.2	4.76	5.12
4.43 YES		NO					
L0000694	0	0.24814E-02	472310.2	3673812.9	58.2	4.76	5.12
4.43 YES		NO					
L0000695	0	0.24814E-02	472299.2	3673812.1	58.2	4.76	5.12
4.43 YES		NO					
L0000696	0	0.24814E-02	472288.2	3673811.3	58.0	4.76	5.12
4.43 YES		NO					
L0000697	0	0.24814E-02	472277.3	3673810.5	57.6	4.76	5.12
4.43 YES		NO					
L0000698	0	0.24814E-02	472266.3	3673809.6	57.4	4.76	5.12
4.43 YES		NO					
L0000699	0	0.24814E-02	472255.3	3673808.8	57.3	4.76	5.12
4.43 YES		NO					
L0000700	0	0.24814E-02	472244.3	3673808.0	57.2	4.76	5.12
4.43 YES		NO					
L0000701	0	0.24814E-02	472233.4	3673807.2	57.1	4.76	5.12
4.43 YES		NO					
L0000702	0	0.24814E-02	472222.4	3673806.4	57.1	4.76	5.12
4.43 YES		NO					
L0000703	0	0.24814E-02	472211.4	3673805.6	57.0	4.76	5.12
4.43 YES		NO					
L0000704	0	0.24814E-02	472200.5	3673804.8	56.9	4.76	5.12
4.43 YES		NO					
L0000705	0	0.24814E-02	472189.5	3673803.9	56.8	4.76	5.12
4.43 YES		NO					
L0000706	0	0.24814E-02	472178.5	3673803.1	56.8	4.76	5.12
4.43 YES		NO					
L0000707	0	0.24814E-02	472167.6	3673802.3	56.8	4.76	5.12
4.43 YES		NO					
L0000708	0	0.24814E-02	472156.6	3673801.5	56.5	4.76	5.12
4.43 YES		NO					
L0000709	0	0.24814E-02	472145.6	3673800.7	56.0	4.76	5.12
4.43 YES		NO					
L0000710	0	0.24814E-02	472134.7	3673799.9	55.6	4.76	5.12
4.43 YES		NO					
L0000711	0	0.24814E-02	472123.7	3673799.0	55.8	4.76	5.12
4.43 YES		NO					

L0000712	0	0.24814E-02	472112.7	3673798.2	55.7	4.76	5.12
4.43 YES		NO					
L0000713	0	0.24814E-02	472101.7	3673797.4	55.6	4.76	5.12
4.43 YES		NO					
L0000714	0	0.24814E-02	472090.8	3673796.6	55.6	4.76	5.12
4.43 YES		NO					
L0000715	0	0.24814E-02	472079.8	3673795.8	55.5	4.76	5.12
4.43 YES		NO					
L0000716	0	0.24814E-02	472068.8	3673795.0	55.4	4.76	5.12
4.43 YES		NO					
L0000717	0	0.24814E-02	472057.9	3673794.2	55.3	4.76	5.12
4.43 YES		NO					
L0000718	0	0.24814E-02	472046.9	3673793.3	55.2	4.76	5.12
4.43 YES		NO					
L0000719	0	0.24814E-02	472035.9	3673792.5	55.2	4.76	5.12
4.43 YES		NO					
L0000720	0	0.24814E-02	472025.0	3673791.7	55.1	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.	
SZ	SOURCE	SCALAR	VARY		X	Y	ELEV.	HEIGHT	SY
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY							

L0000721	0	0.24814E-02	472014.0	3673790.9	54.9	4.76	5.12
4.43 YES		NO					
L0000722	0	0.24814E-02	472003.0	3673790.1	54.6	4.76	5.12
4.43 YES		NO					
L0000723	0	0.24814E-02	471992.0	3673789.3	54.3	4.76	5.12
4.43 YES		NO					
L0000724	0	0.24814E-02	471981.1	3673788.5	54.1	4.76	5.12
4.43 YES		NO					
L0000725	0	0.24814E-02	471970.1	3673787.6	54.1	4.76	5.12
4.43 YES		NO					
L0000726	0	0.24814E-02	471959.1	3673786.8	54.0	4.76	5.12
4.43 YES		NO					

L0000727	0	0.24814E-02	471948.2	3673786.0	54.0	4.76	5.12
4.43 YES		NO					
L0000728	0	0.24814E-02	471937.2	3673785.2	54.0	4.76	5.12
4.43 YES		NO					
L0000729	0	0.24814E-02	471926.2	3673784.4	53.9	4.76	5.12
4.43 YES		NO					
L0000730	0	0.24814E-02	471915.3	3673783.6	53.9	4.76	5.12
4.43 YES		NO					
L0000731	0	0.24814E-02	471904.3	3673782.8	53.9	4.76	5.12
4.43 YES		NO					
L0000732	0	0.24814E-02	471893.3	3673781.9	53.9	4.76	5.12
4.43 YES		NO					
L0000733	0	0.24814E-02	471882.3	3673781.1	53.8	4.76	5.12
4.43 YES		NO					
L0000734	0	0.24814E-02	471871.4	3673780.3	53.6	4.76	5.12
4.43 YES		NO					
L0000735	0	0.24814E-02	471860.4	3673779.5	53.6	4.76	5.12
4.43 YES		NO					
L0000736	0	0.24814E-02	471849.4	3673778.7	53.4	4.76	5.12
4.43 YES		NO					
L0000737	0	0.24814E-02	471838.5	3673777.9	53.3	4.76	5.12
4.43 YES		NO					
L0000738	0	0.24814E-02	471827.5	3673777.0	53.4	4.76	5.12
4.43 YES		NO					
L0000739	0	0.24814E-02	471816.5	3673776.2	53.5	4.76	5.12
4.43 YES		NO					
L0000740	0	0.24814E-02	471805.6	3673775.4	53.5	4.76	5.12
4.43 YES		NO					
L0000741	0	0.24814E-02	471794.6	3673774.6	53.6	4.76	5.12
4.43 YES		NO					
L0000742	0	0.24814E-02	471783.6	3673773.8	53.6	4.76	5.12
4.43 YES		NO					
L0000743	0	0.24814E-02	471772.6	3673773.0	53.7	4.76	5.12
4.43 YES		NO					
L0000744	0	0.24814E-02	471761.7	3673772.2	53.7	4.76	5.12
4.43 YES		NO					
L0000745	0	0.24814E-02	471750.7	3673771.3	53.6	4.76	5.12
4.43 YES		NO					
L0000746	0	0.24814E-02	471739.7	3673770.5	53.5	4.76	5.12
4.43 YES		NO					
L0000747	0	0.24814E-02	471728.8	3673769.7	53.4	4.76	5.12
4.43 YES		NO					
L0000748	0	0.24814E-02	471717.8	3673768.9	53.3	4.76	5.12
4.43 YES		NO					
L0000749	0	0.24814E-02	471706.8	3673768.1	53.1	4.76	5.12
4.43 YES		NO					
L0000750	0	0.24814E-02	471695.9	3673767.3	53.0	4.76	5.12
4.43 YES		NO					
L0000751	0	0.24814E-02	471684.9	3673766.5	53.0	4.76	5.12
4.43 YES		NO					

L0000752	0	0.24814E-02	471673.9	3673765.6	53.0	4.76	5.12
4.43 YES		NO					
L0000753	0	0.24814E-02	471663.0	3673764.8	52.9	4.76	5.12
4.43 YES		NO					
L0000754	0	0.24814E-02	471652.0	3673764.0	52.8	4.76	5.12
4.43 YES		NO					
L0000755	0	0.24814E-02	471641.0	3673763.2	52.7	4.76	5.12
4.43 YES		NO					
L0000756	0	0.24814E-02	471630.0	3673762.4	52.5	4.76	5.12
4.43 YES		NO					
L0000757	0	0.24814E-02	471619.1	3673761.6	52.3	4.76	5.12
4.43 YES		NO					
L0000758	0	0.24814E-02	471608.1	3673760.8	52.0	4.76	5.12
4.43 YES		NO					
L0000759	0	0.24814E-02	471597.1	3673759.9	51.6	4.76	5.12
4.43 YES		NO					
L0000760	0	0.24814E-02	471586.2	3673759.1	51.3	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT				
SZ	SOURCE	SCALAR	VARY		X	Y	ELEV.	HEIGHT
ID		CATS.		(GRAMS/SEC)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						SY

L0000761	0	0.24814E-02	471575.2	3673758.3	51.0	4.76	5.12
4.43 YES		NO					
L0000762	0	0.24814E-02	471564.2	3673757.5	50.7	4.76	5.12
4.43 YES		NO					
L0000763	0	0.24814E-02	471553.3	3673756.7	50.6	4.76	5.12
4.43 YES		NO					
L0000764	0	0.24814E-02	471542.3	3673755.9	50.5	4.76	5.12
4.43 YES		NO					
L0000765	0	0.24814E-02	471531.3	3673755.0	50.3	4.76	5.12
4.43 YES		NO					
L0000766	0	0.24814E-02	471520.3	3673754.2	50.1	4.76	5.12
4.43 YES		NO					

L0000767	0	0.24814E-02	471509.4	3673753.4	50.0	4.76	5.12
4.43 YES		NO					
L0000768	0	0.24814E-02	471498.4	3673752.6	49.9	4.76	5.12
4.43 YES		NO					
L0000769	0	0.24814E-02	471487.4	3673751.8	49.8	4.76	5.12
4.43 YES		NO					
L0000770	0	0.24814E-02	471476.5	3673751.0	49.7	4.76	5.12
4.43 YES		NO					
L0000771	0	0.24814E-02	471465.5	3673750.2	49.6	4.76	5.12
4.43 YES		NO					
L0000772	0	0.24814E-02	471454.5	3673749.3	49.4	4.76	5.12
4.43 YES		NO					
L0000773	0	0.24814E-02	471443.6	3673748.5	48.9	4.76	5.12
4.43 YES		NO					
L0000774	0	0.24814E-02	471432.6	3673747.7	48.6	4.76	5.12
4.43 YES		NO					
L0000775	0	0.24814E-02	471421.6	3673746.9	48.5	4.76	5.12
4.43 YES		NO					
L0000776	0	0.24814E-02	471410.6	3673746.1	48.5	4.76	5.12
4.43 YES		NO					
L0000777	0	0.24814E-02	471399.7	3673745.3	48.5	4.76	5.12
4.43 YES		NO					
L0000778	0	0.24814E-02	471388.7	3673744.5	48.5	4.76	5.12
4.43 YES		NO					
L0000779	0	0.24814E-02	471377.7	3673743.6	48.6	4.76	5.12
4.43 YES		NO					
L0000780	0	0.24814E-02	471366.8	3673742.8	48.5	4.76	5.12
4.43 YES		NO					
L0000781	0	0.24814E-02	471355.8	3673742.0	48.2	4.76	5.12
4.43 YES		NO					
L0000782	0	0.24814E-02	471344.8	3673741.2	47.9	4.76	5.12
4.43 YES		NO					
L0000783	0	0.24814E-02	471333.9	3673740.4	47.8	4.76	5.12
4.43 YES		NO					
L0000784	0	0.24814E-02	471323.1	3673738.4	47.8	4.76	5.12
4.43 YES		NO					
L0000785	0	0.24814E-02	471312.3	3673736.1	47.9	4.76	5.12
4.43 YES		NO					
L0000786	0	0.24814E-02	471301.6	3673733.7	48.1	4.76	5.12
4.43 YES		NO					
L0000787	0	0.24814E-02	471290.8	3673731.4	47.8	4.76	5.12
4.43 YES		NO					
L0000788	0	0.24814E-02	471280.1	3673729.0	47.8	4.76	5.12
4.43 YES		NO					
L0000789	0	0.24814E-02	471269.3	3673726.7	47.8	4.76	5.12
4.43 YES		NO					
L0000790	0	0.24814E-02	471258.6	3673724.3	48.0	4.76	5.12
4.43 YES		NO					
L0000791	0	0.24814E-02	471247.8	3673721.9	48.1	4.76	5.12
4.43 YES		NO					

L0000792	0	0.24814E-02	471237.0	3673720.0	47.8	4.76	5.12
4.43 YES		NO					
L0000793	0	0.24814E-02	471226.2	3673718.0	47.7	4.76	5.12
4.43 YES		NO					
L0000794	0	0.24814E-02	471215.4	3673716.0	47.6	4.76	5.12
4.43 YES		NO					
L0000795	0	0.24814E-02	471204.6	3673714.0	47.6	4.76	5.12
4.43 YES		NO					
L0000796	0	0.24814E-02	471193.7	3673712.0	47.7	4.76	5.12
4.43 YES		NO					
L0000797	0	0.24814E-02	471182.9	3673710.1	47.2	4.76	5.12
4.43 YES		NO					
L0000798	0	0.24814E-02	471172.1	3673708.1	47.0	4.76	5.12
4.43 YES		NO					
L0000799	0	0.24814E-02	471161.3	3673706.1	46.9	4.76	5.12
4.43 YES		NO					
L0000800	0	0.24814E-02	471150.5	3673704.1	47.0	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
INIT.	URBAN	EMISSION	RATE	AIRCRAFT		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	VARY			ELEV.	HEIGHT	SY
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000801	0	0.24814E-02	471139.6	3673702.1	47.0	4.76	5.12
4.43 YES		NO					
L0000802	0	0.24814E-02	471128.8	3673700.2	46.4	4.76	5.12
4.43 YES		NO					
L0000803	0	0.24814E-02	471118.0	3673698.2	46.2	4.76	5.12
4.43 YES		NO					
L0000804	0	0.24814E-02	471107.2	3673696.2	46.1	4.76	5.12
4.43 YES		NO					
L0000805	0	0.24814E-02	471096.4	3673694.2	46.3	4.76	5.12
4.43 YES		NO					
L0000806	0	0.24814E-02	471085.5	3673692.2	46.2	4.76	5.12
4.43 YES		NO					

L0000807	0	0.24814E-02	471074.7	3673690.2	46.2	4.76	5.12
4.43 YES		NO					
L0000808	0	0.24814E-02	471064.0	3673688.0	46.1	4.76	5.12
4.43 YES		NO					
L0000809	0	0.24814E-02	471053.2	3673685.8	45.9	4.76	5.12
4.43 YES		NO					
L0000810	0	0.24814E-02	471042.4	3673683.7	45.7	4.76	5.12
4.43 YES		NO					
L0000811	0	0.24814E-02	471031.6	3673681.5	45.4	4.76	5.12
4.43 YES		NO					
L0000812	0	0.24814E-02	471020.8	3673679.4	45.3	4.76	5.12
4.43 YES		NO					

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
SRCGP1	L0000410 , L0000411 , L0000412 , L0000413 , L0000414 ,
L0000415	, L0000416 , L0000417 ,
	L0000418 , L0000419 , L0000420 , L0000421 , L0000422 ,
L0000423	, L0000424 , L0000425 ,
	L0000426 , L0000427 , L0000428 , L0000429 , L0000430 ,
L0000431	, L0000432 , L0000433 ,
	L0000434 , L0000435 , L0000436 , L0000437 , L0000438 ,
L0000439	, L0000440 , L0000441 ,
	L0000442 , L0000443 , L0000444 , L0000445 , L0000446 ,
L0000447	, L0000448 , L0000449 ,
	L0000450 , L0000451 , L0000452 , L0000453 , L0000454 ,
L0000455	, L0000456 , L0000457 ,
	L0000458 , L0000459 , L0000460 , L0000461 , L0000462 ,
L0000463	, L0000464 , L0000465 ,
	L0000466 , L0000467 , L0000468 , L0000469 , L0000470 ,
L0000471	, L0000472 , L0000473 ,

L0000479	L0000474 , L0000480	, L0000475 , L0000481	, L0000476 ,	, L0000477	, L0000478	,
L0000487	L0000482 , L0000488	, L0000483 , L0000489	, L0000484 ,	, L0000485	, L0000486	,
L0000495	L0000490 , L0000496	, L0000491 , L0000497	, L0000492 ,	, L0000493	, L0000494	,
L0000503	L0000498 , L0000504	, L0000499 , L0000505	, L0000500 ,	, L0000501	, L0000502	,
L0000511	L0000506 , L0000512	, L0000507 , L0000513	, L0000508 ,	, L0000509	, L0000510	,
L0000519	L0000514 , L0000520	, L0000515 , L0000521	, L0000516 ,	, L0000517	, L0000518	,
L0000527	L0000522 , L0000528	, L0000523 , L0000529	, L0000524 ,	, L0000525	, L0000526	,
L0000535	L0000530 , L0000536	, L0000531 , L0000537	, L0000532 ,	, L0000533	, L0000534	,
L0000543	L0000538 , L0000544	, L0000539 , L0000545	, L0000540 ,	, L0000541	, L0000542	,
L0000551	L0000546 , L0000552	, L0000547 , L0000553	, L0000548 ,	, L0000549	, L0000550	,
L0000559	L0000554 , L0000560	, L0000555 , L0000561	, L0000556 ,	, L0000557	, L0000558	,
L0000567	L0000562 , L0000568	, L0000563 , L0000569	, L0000564 ,	, L0000565	, L0000566	,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0000575	L0000570 , L0000576	, L0000571 , L0000577	, L0000572 ,	, L0000573	, L0000574	,
L0000583	L0000578 , L0000584	, L0000579 , L0000585	, L0000580 ,	, L0000581	, L0000582	,
L0000591	L0000586 , L0000592	, L0000587 , L0000593	, L0000588 ,	, L0000589	, L0000590	,
L0000599	L0000594 , L0000600	, L0000595 , L0000601	, L0000596 ,	, L0000597	, L0000598	,
L0000607	L0000602 , L0000608	, L0000603 , L0000609	, L0000604 ,	, L0000605	, L0000606	,
L0000615	L0000610 , L0000616	, L0000611 , L0000617	, L0000612 ,	, L0000613	, L0000614	,
L0000623	L0000618 , L0000624	, L0000619 , L0000625	, L0000620 ,	, L0000621	, L0000622	,
L0000631	L0000626 , L0000632	, L0000627 , L0000633	, L0000628 ,	, L0000629	, L0000630	,
L0000639	L0000634 , L0000640	, L0000635 , L0000641	, L0000636 ,	, L0000637	, L0000638	,
L0000647	L0000642 , L0000648	, L0000643 , L0000649	, L0000644 ,	, L0000645	, L0000646	,
L0000655	L0000650 , L0000656	, L0000651 , L0000657	, L0000652 ,	, L0000653	, L0000654	,
L0000663	L0000658 , L0000664	, L0000659 , L0000665	, L0000660 ,	, L0000661	, L0000662	,
L0000671	L0000666 , L0000672	, L0000667 , L0000673	, L0000668 ,	, L0000669	, L0000670	,
L0000679	L0000674 , L0000680	, L0000675 , L0000681	, L0000676 ,	, L0000677	, L0000678	,
L0000687	L0000682 , L0000688	, L0000683 , L0000689	, L0000684 ,	, L0000685	, L0000686	,
L0000695	L0000690 , L0000696	, L0000691 , L0000697	, L0000692 ,	, L0000693	, L0000694	,
	L0000698	, L0000699	, L0000700	, L0000701	, L0000702	,

L0000703 , L0000704 , L0000705 ,
 L0000711 , L0000712 , L0000713 ,
 L0000719 , L0000720 , L0000721 ,
 L0000727 , L0000728 , L0000729 ,
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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
L0000735	L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 ,
L0000743	L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 ,
L0000751	L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 ,
L0000759	L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 ,
L0000767	L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , L0000768 , L0000769 ,
L0000775	L0000770 , L0000771 , L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 ,
L0000783	L0000778 , L0000779 , L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 ,
L0000791	L0000786 , L0000787 , L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 ,
	L0000794 , L0000795 , L0000796 , L0000797 , L0000798 ,

L0000799	, L0000800	, L0000801	,			
	L0000802	, L0000803	, L0000804	, L0000805	, L0000806	,
L0000807	, L0000808	, L0000809	,			
	L0000810	, L0000811	, L0000812	,		
SRCGP2	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,
L0000006	, L0000007	, L0000008	,			
	L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,
L0000014	, L0000015	, L0000016	,			
	L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,
L0000022	, L0000023	, L0000024	,			
	L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,
L0000030	, L0000031	, L0000032	,			
	L0000033	, L0000034	, L0000035	, L0000036	, L0000037	,
L0000038	, L0000039	, L0000040	,			
	L0000041	, L0000042	, L0000043	, L0000044	, L0000045	,
L0000046	, L0000047	, L0000048	,			
	L0000049	, L0000050	, L0000051	, L0000052	, L0000053	,
L0000054	, L0000055	, L0000056	,			
	L0000057	, L0000058	, L0000059	, L0000060	, L0000061	,
L0000062	, L0000063	, L0000064	,			
	L0000065	, L0000066	, L0000067	, L0000068	, L0000069	,
L0000070	, L0000071	, L0000072	,			

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

	L0000073	, L0000074	, L0000075	, L0000076	, L0000077	,
L0000078	, L0000079	, L0000080	,			

L0000086	L0000081 , L0000087	, L0000082 , L0000088	, L0000083 ,	, L0000084	, L0000085	,
L0000094	L0000089 , L0000095	, L0000090 , L0000096	, L0000091 ,	, L0000092	, L0000093	,
L0000102	L0000097 , L0000103	, L0000098 , L0000104	, L0000099 ,	, L0000100	, L0000101	,
L0000110	L0000105 , L0000111	, L0000106 , L0000112	, L0000107 ,	, L0000108	, L0000109	,
L0000118	L0000113 , L0000119	, L0000114 , L0000120	, L0000115 ,	, L0000116	, L0000117	,
L0000126	L0000121 , L0000127	, L0000122 , L0000128	, L0000123 ,	, L0000124	, L0000125	,
L0000134	L0000129 , L0000135	, L0000130 , L0000136	, L0000131 ,	, L0000132	, L0000133	,
L0000142	L0000137 , L0000143	, L0000138 , L0000144	, L0000139 ,	, L0000140	, L0000141	,
L0000150	L0000145 , L0000151	, L0000146 , L0000152	, L0000147 ,	, L0000148	, L0000149	,
L0000158	L0000153 , L0000159	, L0000154 , L0000160	, L0000155 ,	, L0000156	, L0000157	,
L0000166	L0000161 , L0000167	, L0000162 , L0000168	, L0000163 ,	, L0000164	, L0000165	,
L0000174	L0000169 , L0000175	, L0000170 , L0000176	, L0000171 ,	, L0000172	, L0000173	,
L0000182	L0000177 , L0000183	, L0000178 , L0000184	, L0000179 ,	, L0000180	, L0000181	,
L0000190	L0000185 , L0000191	, L0000186 , L0000192	, L0000187 ,	, L0000188	, L0000189	,
L0000198	L0000193 , L0000199	, L0000194 , L0000200	, L0000195 ,	, L0000196	, L0000197	,
L0000206	L0000201 , L0000207	, L0000202 , L0000208	, L0000203 ,	, L0000204	, L0000205	,
	L0000209	, L0000210	, L0000211	, L0000212	, L0000213	,

L0000214 , L0000215 , L0000216 ,
 L0000217 , L0000218 , L0000219 , L0000220 , L0000221 ,
 L0000222 , L0000223 , L0000224 ,
 L0000225 , L0000226 , L0000227 , L0000228 , L0000229 ,
 L0000230 , L0000231 , L0000232 ,
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs					
-----	-----					
L0000238	L0000233 ,	L0000234 ,	L0000235 ,	L0000236 ,	L0000237 ,	
	L0000239 ,	L0000240 ,				
L0000246	L0000241 ,	L0000242 ,	L0000243 ,	L0000244 ,	L0000245 ,	
	L0000247 ,	L0000248 ,				
L0000254	L0000249 ,	L0000250 ,	L0000251 ,	L0000252 ,	L0000253 ,	
	L0000255 ,	L0000256 ,				
L0000262	L0000257 ,	L0000258 ,	L0000259 ,	L0000260 ,	L0000261 ,	
	L0000263 ,	L0000264 ,				
L0000270	L0000265 ,	L0000266 ,	L0000267 ,	L0000268 ,	L0000269 ,	
	L0000271 ,	L0000272 ,				
L0000278	L0000273 ,	L0000274 ,	L0000275 ,	L0000276 ,	L0000277 ,	
	L0000279 ,	L0000280 ,				
L0000286	L0000281 ,	L0000282 ,	L0000283 ,	L0000284 ,	L0000285 ,	
	L0000287 ,	L0000288 ,				
L0000294	L0000289 ,	L0000290 ,	L0000291 ,	L0000292 ,	L0000293 ,	
	L0000295 ,	L0000296 ,				
L0000302	L0000297 ,	L0000298 ,	L0000299 ,	L0000300 ,	L0000301 ,	
	L0000303 ,	L0000304 ,				
	L0000305 ,	L0000306 ,	L0000307 ,	L0000308 ,	L0000309 ,	

L0000310	, L0000311	, L0000312	,			
	L0000313	, L0000314	, L0000315	, L0000316	, L0000317	,
L0000318	, L0000319	, L0000320	,			
	L0000321	, L0000322	, L0000323	, L0000324	, L0000325	,
L0000326	, L0000327	, L0000328	,			
	L0000329	, L0000330	, L0000331	, L0000332	, L0000333	,
L0000334	, L0000335	, L0000336	,			
	L0000337	, L0000338	, L0000339	, L0000340	, L0000341	,
L0000342	, L0000343	, L0000344	,			
	L0000345	, L0000346	, L0000347	, L0000348	, L0000349	,
L0000350	, L0000351	, L0000352	,			
	L0000353	, L0000354	, L0000355	, L0000356	, L0000357	,
L0000358	, L0000359	, L0000360	,			
	L0000361	, L0000362	, L0000363	, L0000364	, L0000365	,
L0000366	, L0000367	, L0000368	,			
	L0000369	, L0000370	, L0000371	, L0000372	, L0000373	,
L0000374	, L0000375	, L0000376	,			
	L0000377	, L0000378	, L0000379	, L0000380	, L0000381	,
L0000382	, L0000383	, L0000384	,			
	L0000385	, L0000386	, L0000387	, L0000388	, L0000389	,
L0000390	, L0000391	, L0000392	,			

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

	L0000393	, L0000394	, L0000395	, L0000396	, L0000397	,
L0000398	, L0000399	, L0000400	,			
	L0000401	, L0000402	, L0000403	, L0000404	, L0000405	,

L0000406	, L0000407	, L0000408	,			
	L0000409	,				
SRCGP3	SPRNIDLEWB1	,				
SRCGP4	SPRNIDLEEB1	,				
SRCGP5	SPRNIDLEWB2,					
SRCGP6	SPRNIDLEEB2,					
ALL	SPRNIDLEEB1	, SPRNIDLEWB1	, SPRINIDLEEB2,	SPRNIDLEWB2,	L0000001	,
L0000002	, L0000003	, L0000004	,			
	L0000005	, L0000006	, L0000007	, L0000008	, L0000009	,
L0000010	, L0000011	, L0000012	,			
	L0000013	, L0000014	, L0000015	, L0000016	, L0000017	,
L0000018	, L0000019	, L0000020	,			
	L0000021	, L0000022	, L0000023	, L0000024	, L0000025	,
L0000026	, L0000027	, L0000028	,			
	L0000029	, L0000030	, L0000031	, L0000032	, L0000033	,
L0000034	, L0000035	, L0000036	,			
	L0000037	, L0000038	, L0000039	, L0000040	, L0000041	,
L0000042	, L0000043	, L0000044	,			
	L0000045	, L0000046	, L0000047	, L0000048	, L0000049	,
L0000050	, L0000051	, L0000052	,			
	L0000053	, L0000054	, L0000055	, L0000056	, L0000057	,
L0000058	, L0000059	, L0000060	,			
	L0000061	, L0000062	, L0000063	, L0000064	, L0000065	,
L0000066	, L0000067	, L0000068	,			
	L0000069	, L0000070	, L0000071	, L0000072	, L0000073	,
L0000074	, L0000075	, L0000076	,			
	L0000077	, L0000078	, L0000079	, L0000080	, L0000081	,
L0000082	, L0000083	, L0000084	,			
	L0000085	, L0000086	, L0000087	, L0000088	, L0000089	,
L0000090	, L0000091	, L0000092	,			
	L0000093	, L0000094	, L0000095	, L0000096	, L0000097	,
L0000098	, L0000099	, L0000100	,			

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
L0000106	L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000107 , L0000108 ,
L0000114	L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000115 , L0000116 ,
L0000122	L0000117 , L0000118 , L0000119 , L0000120 , L0000121 , L0000123 , L0000124 ,
L0000130	L0000125 , L0000126 , L0000127 , L0000128 , L0000129 , L0000131 , L0000132 ,
L0000138	L0000133 , L0000134 , L0000135 , L0000136 , L0000137 , L0000139 , L0000140 ,
L0000146	L0000141 , L0000142 , L0000143 , L0000144 , L0000145 , L0000147 , L0000148 ,
L0000154	L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000155 , L0000156 ,
L0000162	L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000163 , L0000164 ,
L0000170	L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000171 , L0000172 ,
L0000178	L0000173 , L0000174 , L0000175 , L0000176 , L0000177 , L0000179 , L0000180 ,
L0000186	L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000187 , L0000188 ,
L0000194	L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000195 , L0000196 ,

L0000202	L0000197 , L0000203	, L0000198 , L0000204	, L0000199 ,	, L0000200	, L0000201	,
L0000210	L0000205 , L0000211	, L0000206 , L0000212	, L0000207 ,	, L0000208	, L0000209	,
L0000218	L0000213 , L0000219	, L0000214 , L0000220	, L0000215 ,	, L0000216	, L0000217	,
L0000226	L0000221 , L0000227	, L0000222 , L0000228	, L0000223 ,	, L0000224	, L0000225	,
L0000234	L0000229 , L0000235	, L0000230 , L0000236	, L0000231 ,	, L0000232	, L0000233	,
L0000242	L0000237 , L0000243	, L0000238 , L0000244	, L0000239 ,	, L0000240	, L0000241	,
L0000250	L0000245 , L0000251	, L0000246 , L0000252	, L0000247 ,	, L0000248	, L0000249	,
L0000258	L0000253 , L0000259	, L0000254 , L0000260	, L0000255 ,	, L0000256	, L0000257	,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
L0000266	L0000261 , L0000267
	, L0000262 , L0000268
	, L0000263 ,
L0000274	L0000269 , L0000275
	, L0000270 , L0000276
	, L0000271 ,
L0000282	L0000277 , L0000283
	, L0000278 , L0000284
	, L0000279 ,
L0000290	L0000285 , L0000291
	, L0000286 , L0000292
	, L0000287 ,
	, L0000288
	, L0000289

L0000298	L0000293 , L0000299	, L0000294 , L0000300	, L0000295 ,	, L0000296	, L0000297	,
L0000306	L0000301 , L0000307	, L0000302 , L0000308	, L0000303 ,	, L0000304	, L0000305	,
L0000314	L0000309 , L0000315	, L0000310 , L0000316	, L0000311 ,	, L0000312	, L0000313	,
L0000322	L0000317 , L0000323	, L0000318 , L0000324	, L0000319 ,	, L0000320	, L0000321	,
L0000330	L0000325 , L0000331	, L0000326 , L0000332	, L0000327 ,	, L0000328	, L0000329	,
L0000338	L0000333 , L0000339	, L0000334 , L0000340	, L0000335 ,	, L0000336	, L0000337	,
L0000346	L0000341 , L0000347	, L0000342 , L0000348	, L0000343 ,	, L0000344	, L0000345	,
L0000354	L0000349 , L0000355	, L0000350 , L0000356	, L0000351 ,	, L0000352	, L0000353	,
L0000362	L0000357 , L0000363	, L0000358 , L0000364	, L0000359 ,	, L0000360	, L0000361	,
L0000370	L0000365 , L0000371	, L0000366 , L0000372	, L0000367 ,	, L0000368	, L0000369	,
L0000378	L0000373 , L0000379	, L0000374 , L0000380	, L0000375 ,	, L0000376	, L0000377	,
L0000386	L0000381 , L0000387	, L0000382 , L0000388	, L0000383 ,	, L0000384	, L0000385	,
L0000394	L0000389 , L0000395	, L0000390 , L0000396	, L0000391 ,	, L0000392	, L0000393	,
L0000402	L0000397 , L0000403	, L0000398 , L0000404	, L0000399 ,	, L0000400	, L0000401	,
L0000410	L0000405 , L0000411	, L0000406 , L0000412	, L0000407 ,	, L0000408	, L0000409	,
L0000418	L0000413 , L0000419	, L0000414 , L0000420	, L0000415 ,	, L0000416	, L0000417	,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
L0000426	L0000421 , L0000422 , L0000423 , L0000424 , L0000425 , L0000427 , L0000428 ,
L0000434	L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000435 , L0000436 ,
L0000442	L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000443 , L0000444 ,
L0000450	L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000451 , L0000452 ,
L0000458	L0000453 , L0000454 , L0000455 , L0000456 , L0000457 , L0000459 , L0000460 ,
L0000466	L0000461 , L0000462 , L0000463 , L0000464 , L0000465 , L0000467 , L0000468 ,
L0000474	L0000469 , L0000470 , L0000471 , L0000472 , L0000473 , L0000475 , L0000476 ,
L0000482	L0000477 , L0000478 , L0000479 , L0000480 , L0000481 , L0000483 , L0000484 ,
L0000490	L0000485 , L0000486 , L0000487 , L0000488 , L0000489 , L0000491 , L0000492 ,
L0000498	L0000493 , L0000494 , L0000495 , L0000496 , L0000497 , L0000499 , L0000500 ,
L0000506	L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000507 , L0000508 ,
L0000514	L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000515 , L0000516 ,
	L0000517 , L0000518 , L0000519 , L0000520 , L0000521 ,

L0000522	,	L0000523	,	L0000524	,	
		L0000525	,	L0000526	,	L0000527
L0000530	,	L0000531	,	L0000532	,	
		L0000533	,	L0000534	,	L0000535
L0000538	,	L0000539	,	L0000540	,	
		L0000541	,	L0000542	,	L0000543
L0000546	,	L0000547	,	L0000548	,	
		L0000549	,	L0000550	,	L0000551
L0000554	,	L0000555	,	L0000556	,	
		L0000557	,	L0000558	,	L0000559
L0000562	,	L0000563	,	L0000564	,	
		L0000565	,	L0000566	,	L0000567
L0000570	,	L0000571	,	L0000572	,	
		L0000573	,	L0000574	,	L0000575
L0000578	,	L0000579	,	L0000580	,	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID		SOURCE IDs
-----		-----
L0000586	L0000581 , L0000582 , L0000583 , L0000584 , L0000585 , L0000587 , L0000588 ,	
L0000594	L0000589 , L0000590 , L0000591 , L0000592 , L0000593 , L0000595 , L0000596 ,	
L0000602	L0000597 , L0000598 , L0000599 , L0000600 , L0000601 , L0000603 , L0000604 ,	
L0000610	L0000605 , L0000606 , L0000607 , L0000608 , L0000609 , L0000611 , L0000612 ,	
	L0000613 , L0000614 , L0000615 , L0000616 , L0000617 ,	

L0000618	, L0000619	, L0000620	,			
	L0000621	, L0000622	, L0000623	, L0000624	, L0000625	,
L0000626	, L0000627	, L0000628	,			
	L0000629	, L0000630	, L0000631	, L0000632	, L0000633	,
L0000634	, L0000635	, L0000636	,			
	L0000637	, L0000638	, L0000639	, L0000640	, L0000641	,
L0000642	, L0000643	, L0000644	,			
	L0000645	, L0000646	, L0000647	, L0000648	, L0000649	,
L0000650	, L0000651	, L0000652	,			
	L0000653	, L0000654	, L0000655	, L0000656	, L0000657	,
L0000658	, L0000659	, L0000660	,			
	L0000661	, L0000662	, L0000663	, L0000664	, L0000665	,
L0000666	, L0000667	, L0000668	,			
	L0000669	, L0000670	, L0000671	, L0000672	, L0000673	,
L0000674	, L0000675	, L0000676	,			
	L0000677	, L0000678	, L0000679	, L0000680	, L0000681	,
L0000682	, L0000683	, L0000684	,			
	L0000685	, L0000686	, L0000687	, L0000688	, L0000689	,
L0000690	, L0000691	, L0000692	,			
	L0000693	, L0000694	, L0000695	, L0000696	, L0000697	,
L0000698	, L0000699	, L0000700	,			
	L0000701	, L0000702	, L0000703	, L0000704	, L0000705	,
L0000706	, L0000707	, L0000708	,			
	L0000709	, L0000710	, L0000711	, L0000712	, L0000713	,
L0000714	, L0000715	, L0000716	,			
	L0000717	, L0000718	, L0000719	, L0000720	, L0000721	,
L0000722	, L0000723	, L0000724	,			
	L0000725	, L0000726	, L0000727	, L0000728	, L0000729	,
L0000730	, L0000731	, L0000732	,			
	L0000733	, L0000734	, L0000735	, L0000736	, L0000737	,
L0000738	, L0000739	, L0000740	,			

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs					
-----	-----					
L0000746	L0000741	, L0000742	, L0000743	, L0000744	, L0000745	,
	, L0000747	, L0000748	,			
L0000754	L0000749	, L0000750	, L0000751	, L0000752	, L0000753	,
	, L0000755	, L0000756	,			
L0000762	L0000757	, L0000758	, L0000759	, L0000760	, L0000761	,
	, L0000763	, L0000764	,			
L0000770	L0000765	, L0000766	, L0000767	, L0000768	, L0000769	,
	, L0000771	, L0000772	,			
L0000778	L0000773	, L0000774	, L0000775	, L0000776	, L0000777	,
	, L0000779	, L0000780	,			
L0000786	L0000781	, L0000782	, L0000783	, L0000784	, L0000785	,
	, L0000787	, L0000788	,			
L0000794	L0000789	, L0000790	, L0000791	, L0000792	, L0000793	,
	, L0000795	, L0000796	,			
L0000802	L0000797	, L0000798	, L0000799	, L0000800	, L0000801	,
	, L0000803	, L0000804	,			
L0000810	L0000805	, L0000806	, L0000807	, L0000808	, L0000809	,
	, L0000811	, L0000812	,			

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs

-----	-----	-----			
L0000001 L0000004	3276208. , L0000002 ,	SPRNIDLEEB1 , L0000003	, SPRNIDLEWB1 ,	, SPRINIDLEEB2, SPRINIDLEWB2,	
L0000010	L0000005 , L0000011	, L0000006 , L0000012	, L0000007 ,	, L0000008 ,	L0000009 ,
L0000018	L0000013 , L0000019	, L0000014 , L0000020	, L0000015 ,	, L0000016 ,	L0000017 ,
L0000026	L0000021 , L0000027	, L0000022 , L0000028	, L0000023 ,	, L0000024 ,	L0000025 ,
L0000034	L0000029 , L0000035	, L0000030 , L0000036	, L0000031 ,	, L0000032 ,	L0000033 ,
L0000042	L0000037 , L0000043	, L0000038 , L0000044	, L0000039 ,	, L0000040 ,	L0000041 ,
L0000050	L0000045 , L0000051	, L0000046 , L0000052	, L0000047 ,	, L0000048 ,	L0000049 ,
L0000058	L0000053 , L0000059	, L0000054 , L0000060	, L0000055 ,	, L0000056 ,	L0000057 ,
L0000066	L0000061 , L0000067	, L0000062 , L0000068	, L0000063 ,	, L0000064 ,	L0000065 ,
L0000074	L0000069 , L0000075	, L0000070 , L0000076	, L0000071 ,	, L0000072 ,	L0000073 ,
L0000082	L0000077 , L0000083	, L0000078 , L0000084	, L0000079 ,	, L0000080 ,	L0000081 ,
L0000090	L0000085 , L0000091	, L0000086 , L0000092	, L0000087 ,	, L0000088 ,	L0000089 ,
L0000098	L0000093 , L0000099	, L0000094 , L0000100	, L0000095 ,	, L0000096 ,	L0000097 ,
L0000106	L0000101 , L0000107	, L0000102 , L0000108	, L0000103 ,	, L0000104 ,	L0000105 ,
L0000114	L0000109 , L0000115	, L0000110 , L0000116	, L0000111 ,	, L0000112 ,	L0000113 ,
	L0000117	, L0000118	, L0000119	, L0000120	L0000121 ,

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L0000122      , L0000123      , L0000124      ,
                L0000125      , L0000126      , L0000127      , L0000128      , L0000129      ,
L0000130      , L0000131      , L0000132      ,
                L0000133      , L0000134      , L0000135      , L0000136      , L0000137      ,
L0000138      , L0000139      , L0000140      ,
                L0000141      , L0000142      , L0000143      , L0000144      , L0000145      ,
L0000146      , L0000147      , L0000148      ,
                L0000149      , L0000150      , L0000151      , L0000152      , L0000153      ,
L0000154      , L0000155      , L0000156      ,
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000162	L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 , L0000164 ,	
L0000170	L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 , L0000172 ,	
L0000178	L0000173 , L0000174 , L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,	
L0000186	L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,	
L0000194	L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,	
L0000202	L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 , L0000204 ,	
L0000210	L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 ,	

L0000218	L0000213 , L0000219	, L0000214 , L0000220	, L0000215 ,	, L0000216	, L0000217	,
L0000226	L0000221 , L0000227	, L0000222 , L0000228	, L0000223 ,	, L0000224	, L0000225	,
L0000234	L0000229 , L0000235	, L0000230 , L0000236	, L0000231 ,	, L0000232	, L0000233	,
L0000242	L0000237 , L0000243	, L0000238 , L0000244	, L0000239 ,	, L0000240	, L0000241	,
L0000250	L0000245 , L0000251	, L0000246 , L0000252	, L0000247 ,	, L0000248	, L0000249	,
L0000258	L0000253 , L0000259	, L0000254 , L0000260	, L0000255 ,	, L0000256	, L0000257	,
L0000266	L0000261 , L0000267	, L0000262 , L0000268	, L0000263 ,	, L0000264	, L0000265	,
L0000274	L0000269 , L0000275	, L0000270 , L0000276	, L0000271 ,	, L0000272	, L0000273	,
L0000282	L0000277 , L0000283	, L0000278 , L0000284	, L0000279 ,	, L0000280	, L0000281	,
L0000290	L0000285 , L0000291	, L0000286 , L0000292	, L0000287 ,	, L0000288	, L0000289	,
L0000298	L0000293 , L0000299	, L0000294 , L0000300	, L0000295 ,	, L0000296	, L0000297	,
L0000306	L0000301 , L0000307	, L0000302 , L0000308	, L0000303 ,	, L0000304	, L0000305	,
L0000314	L0000309 , L0000315	, L0000310 , L0000316	, L0000311 ,	, L0000312	, L0000313	,

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID -----	URBAN POP -----	SOURCE IDs -----					
L0000322	L0000317 , L0000323	, L0000318 , L0000324	, L0000319 ,	, L0000320	, L0000321	,	
L0000330	L0000325 , L0000331	, L0000326 , L0000332	, L0000327 ,	, L0000328	, L0000329	,	
L0000338	L0000333 , L0000339	, L0000334 , L0000340	, L0000335 ,	, L0000336	, L0000337	,	
L0000346	L0000341 , L0000347	, L0000342 , L0000348	, L0000343 ,	, L0000344	, L0000345	,	
L0000354	L0000349 , L0000355	, L0000350 , L0000356	, L0000351 ,	, L0000352	, L0000353	,	
L0000362	L0000357 , L0000363	, L0000358 , L0000364	, L0000359 ,	, L0000360	, L0000361	,	
L0000370	L0000365 , L0000371	, L0000366 , L0000372	, L0000367 ,	, L0000368	, L0000369	,	
L0000378	L0000373 , L0000379	, L0000374 , L0000380	, L0000375 ,	, L0000376	, L0000377	,	
L0000386	L0000381 , L0000387	, L0000382 , L0000388	, L0000383 ,	, L0000384	, L0000385	,	
L0000394	L0000389 , L0000395	, L0000390 , L0000396	, L0000391 ,	, L0000392	, L0000393	,	
L0000402	L0000397 , L0000403	, L0000398 , L0000404	, L0000399 ,	, L0000400	, L0000401	,	
L0000410	L0000405 , L0000411	, L0000406 , L0000412	, L0000407 ,	, L0000408	, L0000409	,	
L0000418	L0000413 , L0000419	, L0000414 , L0000420	, L0000415 ,	, L0000416	, L0000417	,	
L0000426	L0000421 , L0000427	, L0000422 , L0000428	, L0000423 ,	, L0000424	, L0000425	,	
L0000434	L0000429 , L0000435	, L0000430 , L0000436	, L0000431 ,	, L0000432	, L0000433	,	
	L0000437	, L0000438	, L0000439	, L0000440	, L0000441	,	

L0000442 , L0000443 , L0000444 ,
 L0000450 , L0000451 , L0000452 ,
 L0000458 , L0000459 , L0000460 ,
 L0000466 , L0000467 , L0000468 ,
 L0000474 , L0000475 , L0000476 ,
 L0000477 , L0000478 , L0000479 , L0000480 , L0000481 ,
 L0000482 , L0000483 , L0000484 ,
 L0000490 , L0000491 , L0000492 ,
 L0000498 , L0000499 , L0000500 ,
 L0000506 , L0000507 , L0000508 ,
 L0000514 , L0000515 , L0000516 ,
 L0000522 , L0000523 , L0000524 ,
 L0000530 , L0000531 , L0000532 ,

L0000445 , L0000446 , L0000447 , L0000448 , L0000449 ,
 L0000453 , L0000454 , L0000455 , L0000456 , L0000457 ,
 L0000461 , L0000462 , L0000463 , L0000464 , L0000465 ,
 L0000469 , L0000470 , L0000471 , L0000472 , L0000473 ,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000482	L0000477 , L0000483	L0000478 , L0000479 , L0000480 , L0000481 , L0000484 ,
L0000490	L0000485 , L0000491	L0000486 , L0000487 , L0000488 , L0000489 , L0000492 ,
L0000498	L0000493 , L0000499	L0000494 , L0000495 , L0000496 , L0000497 , L0000500 ,
L0000506	L0000501 , L0000507	L0000502 , L0000503 , L0000504 , L0000505 , L0000508 ,
L0000514	L0000509 , L0000515	L0000510 , L0000511 , L0000512 , L0000513 , L0000516 ,
L0000522	L0000517 , L0000523	L0000518 , L0000519 , L0000520 , L0000521 , L0000524 ,
L0000530	L0000525 , L0000531	L0000526 , L0000527 , L0000528 , L0000529 , L0000532 ,

L0000538	L0000533 , L0000539	, L0000534 , L0000540	, L0000535 ,	, L0000536	, L0000537	,
L0000546	L0000541 , L0000547	, L0000542 , L0000548	, L0000543 ,	, L0000544	, L0000545	,
L0000554	L0000549 , L0000555	, L0000550 , L0000556	, L0000551 ,	, L0000552	, L0000553	,
L0000562	L0000557 , L0000563	, L0000558 , L0000564	, L0000559 ,	, L0000560	, L0000561	,
L0000570	L0000565 , L0000571	, L0000566 , L0000572	, L0000567 ,	, L0000568	, L0000569	,
L0000578	L0000573 , L0000579	, L0000574 , L0000580	, L0000575 ,	, L0000576	, L0000577	,
L0000586	L0000581 , L0000587	, L0000582 , L0000588	, L0000583 ,	, L0000584	, L0000585	,
L0000594	L0000589 , L0000595	, L0000590 , L0000596	, L0000591 ,	, L0000592	, L0000593	,
L0000602	L0000597 , L0000603	, L0000598 , L0000604	, L0000599 ,	, L0000600	, L0000601	,
L0000610	L0000605 , L0000611	, L0000606 , L0000612	, L0000607 ,	, L0000608	, L0000609	,
L0000618	L0000613 , L0000619	, L0000614 , L0000620	, L0000615 ,	, L0000616	, L0000617	,
L0000626	L0000621 , L0000627	, L0000622 , L0000628	, L0000623 ,	, L0000624	, L0000625	,
L0000634	L0000629 , L0000635	, L0000630 , L0000636	, L0000631 ,	, L0000632	, L0000633	,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID -----	URBAN POP -----	SOURCE IDs -----					
L0000642	L0000637 , L0000643	, L0000638 , L0000644	, L0000639 ,	, L0000640	, L0000641	,	
L0000650	L0000645 , L0000651	, L0000646 , L0000652	, L0000647 ,	, L0000648	, L0000649	,	
L0000658	L0000653 , L0000659	, L0000654 , L0000660	, L0000655 ,	, L0000656	, L0000657	,	
L0000666	L0000661 , L0000667	, L0000662 , L0000668	, L0000663 ,	, L0000664	, L0000665	,	
L0000674	L0000669 , L0000675	, L0000670 , L0000676	, L0000671 ,	, L0000672	, L0000673	,	
L0000682	L0000677 , L0000683	, L0000678 , L0000684	, L0000679 ,	, L0000680	, L0000681	,	
L0000690	L0000685 , L0000691	, L0000686 , L0000692	, L0000687 ,	, L0000688	, L0000689	,	
L0000698	L0000693 , L0000699	, L0000694 , L0000700	, L0000695 ,	, L0000696	, L0000697	,	
L0000706	L0000701 , L0000707	, L0000702 , L0000708	, L0000703 ,	, L0000704	, L0000705	,	
L0000714	L0000709 , L0000715	, L0000710 , L0000716	, L0000711 ,	, L0000712	, L0000713	,	
L0000722	L0000717 , L0000723	, L0000718 , L0000724	, L0000719 ,	, L0000720	, L0000721	,	
L0000730	L0000725 , L0000731	, L0000726 , L0000732	, L0000727 ,	, L0000728	, L0000729	,	
L0000738	L0000733 , L0000739	, L0000734 , L0000740	, L0000735 ,	, L0000736	, L0000737	,	
L0000746	L0000741 , L0000747	, L0000742 , L0000748	, L0000743 ,	, L0000744	, L0000745	,	
L0000754	L0000749 , L0000755	, L0000750 , L0000756	, L0000751 ,	, L0000752	, L0000753	,	
	L0000757	, L0000758	, L0000759	, L0000760	, L0000761	,	

L0000762 , L0000763 , L0000764 ,
 L0000765 , L0000766 , L0000767 , L0000768 , L0000769 ,
 L0000770 , L0000771 , L0000772 ,
 L0000773 , L0000774 , L0000775 , L0000776 , L0000777 ,
 L0000778 , L0000779 , L0000780 ,
 L0000781 , L0000782 , L0000783 , L0000784 , L0000785 ,
 L0000786 , L0000787 , L0000788 ,
 L0000789 , L0000790 , L0000791 , L0000792 , L0000793 ,
 L0000794 , L0000795 , L0000796 ,
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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000802	L0000797 , L0000803	L0000798 , L0000799 , L0000800 , L0000801 , L0000804
L0000810	L0000805 , L0000811	L0000806 , L0000807 , L0000808 , L0000809 , L0000812

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)

(471878.0, 3675532.1, 81.6, 81.6, 0.0); (473000.8,
 3673852.4, 82.9, 141.6, 20.0);
 (472970.4, 3673823.6, 77.0, 141.6, 20.0); (472931.9,
 3673842.8, 68.4, 141.6, 20.0);

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*** MODELOPTs:   RegDFault  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

(1=YES; 0=NO)

Rail Operations HRA - Page 108

19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93
1.00				41.	7.9	278.1	2.0						
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93
1.00				30.	7.9	279.2	2.0						
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93
1.00				24.	7.9	278.8	2.0						
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93
1.00				6.	7.9	279.8	2.0						
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93
0.50				40.	7.9	280.9	2.0						
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93
0.29				41.	7.9	283.1	2.0						
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93
0.22				7.	7.9	284.8	2.0						
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93
0.20				17.	7.9	286.4	2.0						
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93
0.19				2.	7.9	287.0	2.0						
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93
0.19				353.	7.9	287.5	2.0						
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93
0.20				7.	7.9	288.8	2.0						
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93
0.23				64.	7.9	288.8	2.0						
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93
0.32				87.	7.9	287.0	2.0						
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93
0.60				114.	7.9	285.3	2.0						
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93
1.00				116.	7.9	283.8	2.0						
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93
1.00				98.	7.9	282.0	2.0						
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93
1.00				98.	7.9	279.8	2.0						
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93
1.00				25.	7.9	279.8	2.0						
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93
1.00				39.	7.9	279.2	2.0						
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93
1.00				49.	7.9	279.2	2.0						
19	01	01	1	24	-25.8	0.257	-9.000	-9.000	-999.	312.	72.5	0.03	0.93
1.00				69.	7.9	280.3	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	7.9	1	25.	1.57	280.4	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SRCGP1 ***

INCLUDING SOURCE(S): L0000410 , L0000411
 , L0000412 , L0000413 , L0000414 ,
 , L0000415 , L0000416 , L0000417 , L0000418 , L0000419
 , L0000420 , L0000421 , L0000422 ,
 , L0000423 , L0000424 , L0000425 , L0000426 , L0000427
 , L0000428 , L0000429 , L0000430 ,
 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435
 , L0000436 , L0000437 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
471878.05	3675532.07	0.36327	473000.81
3673852.45	1.45618		
472970.40	3673823.58	1.54030	472931.92
3673842.83	2.15946		
472878.81	3673805.50	2.04448	472889.97
3673809.34	2.04154		
473002.66	3673855.19	4.63796	472971.88
3673821.23	4.68802		
472933.39	3673840.70	7.58140	472891.28
3673807.65	6.48762		
472875.44	3673805.38	6.70750	473040.32
3673888.88	6.19829		
473031.20	3673861.51	4.25633	473039.49
3673867.31	4.46057		
473070.60	3673878.51	4.81068	473079.30
3673885.15	5.19671		
473044.06	3673890.54	1.70749	473080.55
3673887.63	1.61435		
473072.67	3673879.75	1.52449	473040.74
3673867.73	1.44337		
472930.90	3673841.50	4.76988	473001.13
3673854.27	2.96379		

473027.85	3673860.42	2.79231	473040.62
3673868.69	2.91111		
473046.06	3673891.87	3.67803	473078.69
3673889.03	3.34304		
473073.25	3673880.28	3.06243	472879.11
3673806.27	4.35902		
472891.41	3673809.81	4.31479	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP2 ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** 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		
471878.05	3675532.07	0.36229	473000.81
3673852.45	1.45335		
472970.40	3673823.58	1.53578	472931.92
3673842.83	2.15725		
472878.81	3673805.50	2.03401	472889.97
3673809.34	2.03227		
473002.66	3673855.19	4.66637	472971.88
3673821.23	4.75202		
472933.39	3673840.70	7.94452	472891.28
3673807.65	6.73173		
472875.44	3673805.38	6.97741	473040.32
3673888.88	6.14531		
473031.20	3673861.51	4.25062	473039.49

3673867.31	4.44579		
473070.60	3673878.51	4.76237	473079.30
3673885.15	5.13037		
473044.06	3673890.54	1.70019	473080.55
3673887.63	1.60381		
473072.67	3673879.75	1.51631	473040.74
3673867.73	1.43815		
472930.90	3673841.50	4.88875	473001.13
3673854.27	2.97047		
473027.85	3673860.42	2.78491	473040.62
3673868.69	2.89693		
473046.06	3673891.87	3.64675	473078.69
3673889.03	3.30676		
473073.25	3673880.28	3.03464	472879.11
3673806.27	4.44678		
472891.41	3673809.81	4.39938	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP3 ***
 INCLUDING SOURCE(S): SPRNIDLEWB1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
471878.05	3675532.07	0.40392	473000.81
3673852.45	6.69831		
472970.40	3673823.58	6.53646	472931.92
3673842.83	9.74192		
472878.81	3673805.50	6.89610	472889.97
3673809.34	7.16392		
473002.66	3673855.19	6.47020	472971.88
3673821.23	4.52154		
472933.39	3673840.70	6.02988	472891.28
3673807.65	5.86965		
472875.44	3673805.38	5.97705	473040.32

3673888.88	6.62794		
473031.20	3673861.51	6.86447	473039.49
3673867.31	7.04819		
473070.60	3673878.51	6.75473	473079.30
3673885.15	6.39053		
473044.06	3673890.54	11.67762	473080.55
3673887.63	10.49389		
473072.67	3673879.75	8.84722	473040.74
3673867.73	7.25322		
472930.90	3673841.50	7.44155	473001.13
3673854.27	7.51494		
473027.85	3673860.42	6.67343	473040.62
3673868.69	7.69011		
473046.06	3673891.87	12.39955	473078.69
3673889.03	11.00119		
473073.25	3673880.28	9.41775	472879.11
3673806.27	5.80426		
472891.41	3673809.81	5.93700	

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP4 ***
 INCLUDING SOURCE(S): SPRNIDLEEB1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
471878.05	3675532.07	0.39770	473000.81
3673852.45	5.97869		
472970.40	3673823.58	5.90053	472931.92
3673842.83	7.71322		
472878.81	3673805.50	5.67075	472889.97
3673809.34	5.88299		
473002.66	3673855.19	5.93057	472971.88
3673821.23	4.66819		
472933.39	3673840.70	6.50567	472891.28

3673807.65	5.66606		
472875.44	3673805.38	5.48789	473040.32
3673888.88	6.32901		
473031.20	3673861.51	6.26875	473039.49
3673867.31	6.40812		
473070.60	3673878.51	6.13443	473079.30
3673885.15	5.82822		
473044.06	3673890.54	10.23908	473080.55
3673887.63	9.55344		
473072.67	3673879.75	8.12637	473040.74
3673867.73	6.64009		
472930.90	3673841.50	6.40696	473001.13
3673854.27	7.00878		
473027.85	3673860.42	6.60370	473040.62
3673868.69	7.52309		
473046.06	3673891.87	11.07550	473078.69
3673889.03	10.29262		
473073.25	3673880.28	8.98352	472879.11
3673806.27	5.20609		
472891.41	3673809.81	5.31189	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP5 ***
 INCLUDING SOURCE(S): SPRINIDLEWB2,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
471878.05	3675532.07	0.23864	473000.81
3673852.45	0.28270		
472970.40	3673823.58	0.31186	472931.92
3673842.83	0.35811		
472878.81	3673805.50	0.37754	472889.97
3673809.34	0.37348		
473002.66	3673855.19	0.39453	472971.88

3673821.23	0.43269		
472933.39	3673840.70	0.48169	472891.28
3673807.65	0.50349		
472875.44	3673805.38	0.51302	473040.32
3673888.88	0.40168		
473031.20	3673861.51	0.37621	473039.49
3673867.31	0.37882		
473070.60	3673878.51	0.38204	473079.30
3673885.15	0.38696		
473044.06	3673890.54	0.28999	473080.55
3673887.63	0.28188		
473072.67	3673879.75	0.27627	473040.74
3673867.73	0.27225		
472930.90	3673841.50	0.42941	473001.13
3673854.27	0.34283		
473027.85	3673860.42	0.32640	473040.62
3673868.69	0.32949		
473046.06	3673891.87	0.35037	473078.69
3673889.03	0.34141		
473073.25	3673880.28	0.33377	472879.11
3673806.27	0.45370		
472891.41	3673809.81	0.44777	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP6 ***
 INCLUDING SOURCE(S): SPRINIDLEEB2,

*** 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		
471878.05	3675532.07	0.24134	473000.81
3673852.45	0.28990		
472970.40	3673823.58	0.31999	472931.92
3673842.83	0.36797		
472878.81	3673805.50	0.38828	472889.97

3673809.34	0.38403		
473002.66	3673855.19	0.40587	472971.88
3673821.23	0.44575		
472933.39	3673840.70	0.49720	472891.28
3673807.65	0.52014		
472875.44	3673805.38	0.53018	473040.32
3673888.88	0.41327		
473031.20	3673861.51	0.38674	473039.49
3673867.31	0.38944		
473070.60	3673878.51	0.39275	473079.30
3673885.15	0.39786		
473044.06	3673890.54	0.29723	473080.55
3673887.63	0.28878		
473072.67	3673879.75	0.28304	473040.74
3673867.73	0.27904		
472930.90	3673841.50	0.44237	473001.13
3673854.27	0.35212		
473027.85	3673860.42	0.33506	473040.62
3673868.69	0.33821		
473046.06	3673891.87	0.35982	473078.69
3673889.03	0.35046		
473073.25	3673880.28	0.34255	472879.11
3673806.27	0.46786		
472891.41	3673809.81	0.46162	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): SPRNIDLEEB1 , SPRNIDLEWB1
 , SPRINIDLEEB2, SPRINIDLEWB2, L0000001 ,
 L0000002 , L0000003 , L0000004 , L0000005 , L0000006
 , L0000007 , L0000008 , L0000009 ,
 L0000010 , L0000011 , L0000012 , L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3673852.45	471878.05	3675532.07	2.00716	473000.81
3673842.83	472970.40	3673823.58	16.14491	472931.92
3673809.34	472878.81	3673805.50	17.41117	472889.97
3673821.23	473002.66	3673855.19	22.50550	472971.88
3673807.65	472933.39	3673840.70	29.04036	472891.28
3673888.88	472875.44	3673805.38	26.19305	473040.32
3673867.31	473031.20	3673861.51	22.40311	473039.49
3673885.15	473070.60	3673878.51	23.23699	473079.30
3673887.63	473044.06	3673890.54	25.91161	473080.55
3673867.73	473072.67	3673879.75	20.57371	473040.74
3673854.27	472930.90	3673841.50	24.37891	473001.13
3673868.69	473027.85	3673860.42	19.51580	473040.62
3673889.03	473046.06	3673891.87	31.51003	473078.69
3673806.27	473073.25	3673880.28	25.17466	472879.11
	472891.41	3673809.81	20.87246	

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP1 ***
 INCLUDING SOURCE(S): L0000410 , L0000411
 , L0000412 , L0000413 , L0000414 ,
 L0000415 , L0000416 , L0000417 , L0000418 , L0000419
 , L0000420 , L0000421 , L0000422 ,
 L0000423 , L0000424 , L0000425 , L0000426 , L0000427
 , L0000428 , L0000429 , L0000430 ,

L0000431 , L0000432 , L0000433 , L0000434 , L0000435
, L0000436 , L0000437 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
471878.05	3675532.07	2.59217	(21122119)	473000.81
3673852.45	15.94466	(19121218)		
472970.40	3673823.58	16.59446	(21090206)	472931.92
3673842.83	21.95545	(19121218)		
472878.81	3673805.50	19.95008	(21090206)	472889.97
3673809.34	20.12895	(21090206)		
473002.66	3673855.19	34.96190	(19120807)	472971.88
3673821.23	32.12107	(19051306)		
472933.39	3673840.70	38.35933	(20012819)	472891.28
3673807.65	33.27004	(20120618)		
472875.44	3673805.38	31.99641	(20120618)	473040.32
3673888.88	39.51065	(19011802)		
473031.20	3673861.51	33.17499	(19120807)	473039.49
3673867.31	34.05885	(19011802)		
473070.60	3673878.51	34.89792	(19011802)	473079.30
3673885.15	35.83229	(19011802)		
473044.06	3673890.54	18.70809	(20123019)	473080.55
3673887.63	17.94278	(20123019)		
473072.67	3673879.75	16.70136	(20123019)	473040.74
3673867.73	15.90831	(19011802)		
472930.90	3673841.50	35.26327	(19120807)	473001.13
3673854.27	26.97789	(19121218)		
473027.85	3673860.42	25.72271	(19011802)	473040.62
3673868.69	26.66140	(19011802)		
473046.06	3673891.87	30.52502	(20123019)	473078.69
3673889.03	28.95565	(19011802)		
473073.25	3673880.28	27.63704	(19011802)	472879.11
3673806.27	30.19679	(19020821)		
472891.41	3673809.81	30.45848	(19020821)	

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SRCGP2 ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
471878.05	3675532.07	2.58160	(21122119)	473000.81
3673852.45	16.20050 (19121218)			
472970.40	3673823.58	16.73279	(21090206)	472931.92
3673842.83	22.21929 (19121218)			
472878.81	3673805.50	19.96154	(21090206)	472889.97
3673809.34	20.16811 (21090206)			
473002.66	3673855.19	36.34991	(19120807)	472971.88
3673821.23	32.96165 (19051306)			
472933.39	3673840.70	39.03719	(20012819)	472891.28
3673807.65	34.20282 (20120618)			
472875.44	3673805.38	32.96552	(20120618)	473040.32
3673888.88	40.18057 (19011802)			
473031.20	3673861.51	34.37263	(19120807)	473039.49
3673867.31	35.24379 (19011802)			
473070.60	3673878.51	35.73444	(19011802)	473079.30
3673885.15	36.39660 (19011802)			
473044.06	3673890.54	18.96798	(20123019)	473080.55
3673887.63	18.25638 (20123019)			
473072.67	3673879.75	17.03001	(20123019)	473040.74
3673867.73	16.18450 (19011802)			
472930.90	3673841.50	36.51377	(19120807)	473001.13
3673854.27	27.81314 (19121218)			
473027.85	3673860.42	26.53528	(19011802)	473040.62
3673868.69	27.45614 (19011802)			
473046.06	3673891.87	31.26193	(20123019)	473078.69
3673889.03	29.44427 (19011802)			
473073.25	3673880.28	28.27212	(19011802)	472879.11
3673806.27	30.56643 (19020821)			

472891.41 3673809.81 30.91016 (19020821)

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SRCGP3 ***
INCLUDING SOURCE(S): SPRNIDLEWB1 ,

*** 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)		
471878.05	3675532.07	14.04397	(20121721)	473000.81
3673852.45	183.22410	(19010908)		
472970.40	3673823.58	177.25881	(21011308)	472931.92
3673842.83	183.48625	(21013124)		
472878.81	3673805.50	129.35006	(19121020)	472889.97
3673809.34	136.58365	(19121020)		
473002.66	3673855.19	143.01663	(19121718)	472971.88
3673821.23	103.52580	(20012919)		
472933.39	3673840.70	97.01678	(19102502)	472891.28
3673807.65	82.40966	(21012006)		
472875.44	3673805.38	81.24459	(20120723)	473040.32
3673888.88	185.55190	(21022106)		
473031.20	3673861.51	167.15905	(19012002)	473039.49
3673867.31	180.82031	(20010621)		
473070.60	3673878.51	194.20201	(21100503)	473079.30
3673885.15	203.44821	(21112602)		
473044.06	3673890.54	326.80480	(19022706)	473080.55
3673887.63	350.83291	(21122608)		
473072.67	3673879.75	287.86580	(20012702)	473040.74
3673867.73	219.68262	(20011508)		
472930.90	3673841.50	130.61260	(21011706)	473001.13
3673854.27	173.87138	(20022823)		
473027.85	3673860.42	178.63382	(19022706)	473040.62
3673868.69	206.39653	(20013020)		
473046.06	3673891.87	304.67673	(20122419)	473078.69
3673889.03	318.76299	(20020320)		

473073.25	3673880.28	270.82189	(21011621)	472879.11
3673806.27	95.09250	(20020122)		
472891.41	3673809.81	100.93187	(21011706)	

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP4 ***
 INCLUDING SOURCE(S): SPRNIDLEEB1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

471878.05	3675532.07	13.71583	(21021921)	473000.81
3673852.45	142.92366	(21011408)		
472970.40	3673823.58	136.32644	(21011408)	472931.92
3673842.83	128.49350	(19120121)		
472878.81	3673805.50	96.58639	(19120121)	472889.97
3673809.34	101.15652	(19021221)		
473002.66	3673855.19	106.62934	(21011706)	472971.88
3673821.23	86.59363	(19120703)		
472933.39	3673840.70	81.01001	(20120723)	472891.28
3673807.65	70.03477	(20120723)		
472875.44	3673805.38	65.40008	(21011705)	473040.32
3673888.88	125.57855	(19120703)		
473031.20	3673861.51	121.11971	(20022806)	473039.49
3673867.31	125.08348	(21011501)		
473070.60	3673878.51	139.46435	(20022803)	473079.30
3673885.15	145.02098	(20020407)		
473044.06	3673890.54	230.46335	(21011408)	473080.55
3673887.63	257.01885	(21120520)		
473072.67	3673879.75	220.52607	(19020719)	473040.74
3673867.73	172.99512	(19010908)		
472930.90	3673841.50	95.49100	(20120801)	473001.13
3673854.27	134.57306	(21011722)		
473027.85	3673860.42	139.59791	(19120120)	473040.62
3673868.69	156.93098	(20022624)		

473046.06	3673891.87	207.95617	(20020119)	473078.69
3673889.03	227.75398	(19012605)		
473073.25	3673880.28	201.56253	(19011101)	472879.11
3673806.27	76.24181	(20120801)		
472891.41	3673809.81	79.26604	(20120801)	

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP5 ***
 INCLUDING SOURCE(S): SPRINIDLEWB2,

*** 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)		

471878.05	3675532.07	13.02365	(21021920)	473000.81
3673852.45	10.79685	(19011802)		
472970.40	3673823.58	11.71938	(19011802)	472931.92
3673842.83	12.56118	(19011802)		
472878.81	3673805.50	13.18596	(19011802)	472889.97
3673809.34	13.08901	(19011802)		
473002.66	3673855.19	13.16405	(19100718)	472971.88
3673821.23	14.00478	(20012819)		
472933.39	3673840.70	14.35111	(20012819)	472891.28
3673807.65	14.89914	(20012819)		
472875.44	3673805.38	15.03528	(20012819)	473040.32
3673888.88	13.31801	(21122017)		
473031.20	3673861.51	12.78317	(19100718)	473039.49
3673867.31	12.84204	(21122017)		
473070.60	3673878.51	12.90176	(21122017)	473079.30
3673885.15	12.98535	(21122017)		
473044.06	3673890.54	10.85269	(20091821)	473080.55
3673887.63	10.55352	(20091821)		
473072.67	3673879.75	10.36562	(19011802)	473040.74
3673867.73	10.37901	(19011802)		
472930.90	3673841.50	13.83775	(20012819)	473001.13
3673854.27	12.11595	(19011802)		

473027.85	3673860.42	11.69657	(19011802)	473040.62
3673868.69	11.67147	(19100718)		
473046.06	3673891.87	12.36246	(20091821)	473078.69
3673889.03	12.06604	(20091821)		
473073.25	3673880.28	11.81021	(21122017)	472879.11
3673806.27	14.51955	(20012819)		
472891.41	3673809.81	14.39774	(20012819)	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: SRCGP6 ***
 INCLUDING SOURCE(S): SPRINIDLEEB2,

*** 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)		

471878.05	3675532.07	13.11609	(21020221)	473000.81
3673852.45	11.00199	(19011802)		
472970.40	3673823.58	11.95344	(19011802)	472931.92
3673842.83	12.83220	(19011802)		
472878.81	3673805.50	13.47531	(19011802)	472889.97
3673809.34	13.37521	(19011802)		
473002.66	3673855.19	13.44521	(19100718)	472971.88
3673821.23	14.32259	(20012819)		
472933.39	3673840.70	14.70471	(20012819)	472891.28
3673807.65	15.27092	(20012819)		
472875.44	3673805.38	15.41446	(20012819)	473040.32
3673888.88	13.60389	(21122017)		
473031.20	3673861.51	13.04755	(19100718)	473039.49
3673867.31	13.10661	(21122017)		
473070.60	3673878.51	13.17051	(21122017)	473079.30
3673885.15	13.25855	(21122017)		
473044.06	3673890.54	11.05434	(20091821)	473080.55
3673887.63	10.74635	(20091821)		
473072.67	3673879.75	10.55665	(19011802)	473040.74
3673867.73	10.57051	(19011802)		

472930.90	3673841.50	14.15302	(20012819)	473001.13
3673854.27	12.36656	(19011802)		
473027.85	3673860.42	11.93189	(19011802)	473040.62
3673868.69	11.89392	(19011802)		
473046.06	3673891.87	12.61938	(20091821)	473078.69
3673889.03	12.31328	(20091821)		
473073.25	3673880.28	12.04162	(20091821)	472879.11
3673806.27	14.85626	(20012819)		
472891.41	3673809.81	14.72988	(20012819)	

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): SPRNIDLEEB1 , SPRNIDLEWB1
 , SPRINIDLEEB2, SPRINIDLEWB2, L0000001 ,
 L0000002 , L0000003 , L0000004 , L0000005 , L0000006
 , L0000007 , L0000008 , L0000009 ,
 L0000010 , L0000011 , L0000012 , L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
471878.05	3675532.07	32.12122	(20121721)	473000.81
3673852.45	311.29049	(19010908)		
472970.40	3673823.58	294.61252	(21020920)	472931.92
3673842.83	324.97290	(20022623)		
472878.81	3673805.50	246.24502	(21120521)	472889.97
3673809.34	256.88036	(20022623)		
473002.66	3673855.19	245.30629	(20022705)	472971.88
3673821.23	204.92128	(20012919)		
472933.39	3673840.70	209.66520	(20120723)	472891.28
3673807.65	186.82567	(20120723)		
472875.44	3673805.38	181.29081	(20120723)	473040.32

3673888.88	271.01787	(20012919)		
473031.20	3673861.51	259.29088	(20120802)	473039.49
3673867.31	267.18214	(20120802)		
473070.60	3673878.51	256.08489	(20120318)	473079.30
3673885.15	241.78649	(21100503)		
473044.06	3673890.54	445.17885	(20100419)	473080.55
3673887.63	395.97106	(19012908)		
473072.67	3673879.75	357.82936	(19012908)	473040.74
3673867.73	311.22696	(19122019)		
472930.90	3673841.50	254.33311	(19120706)	473001.13
3673854.27	289.00246	(20100420)		
473027.85	3673860.42	282.68128	(20100419)	473040.62
3673868.69	305.04940	(21011418)		
473046.06	3673891.87	398.86805	(19012004)	473078.69
3673889.03	352.94444	(20122408)		
473073.25	3673880.28	326.66748	(19090603)	472879.11
3673806.27	202.89411	(19120706)		
472891.41	3673809.81	209.26755	(19120706)	

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*** MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304

HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID		NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE	GRID-ID		
- - - - -				
- - - - -				
SRCGP1	1ST HIGHEST VALUE IS		7.58140 AT (	472933.39, 3673840.70, 68.78,
141.59,	0.00) DC			
	2ND HIGHEST VALUE IS		6.70750 AT (	472875.44, 3673805.38, 67.35,
141.59,	0.00) DC			
	3RD HIGHEST VALUE IS		6.48762 AT (	472891.28, 3673807.65, 68.08,
141.59,	0.00) DC			
	4TH HIGHEST VALUE IS		6.19829 AT (	473040.32, 3673888.88, 78.40,
141.59,	0.00) DC			
	5TH HIGHEST VALUE IS		5.19671 AT (	473079.30, 3673885.15, 79.58,

141.59,	0.00) DC	4.81068 AT (	473070.60,	3673878.51,	81.35,
141.59,	0.00) DC				
	6TH HIGHEST VALUE IS	4.76988 AT (	472930.90,	3673841.50,	68.51,
141.59,	10.00) DC				
	8TH HIGHEST VALUE IS	4.68802 AT (	472971.88,	3673821.23,	77.16,
141.59,	0.00) DC				
	9TH HIGHEST VALUE IS	4.63796 AT (	473002.66,	3673855.19,	82.80,
141.59,	0.00) DC				
	10TH HIGHEST VALUE IS	4.46057 AT (	473039.49,	3673867.31,	83.99,
141.59,	0.00) DC				
SRCGP2	1ST HIGHEST VALUE IS	7.94452 AT (	472933.39,	3673840.70,	68.78,
141.59,	0.00) DC				
	2ND HIGHEST VALUE IS	6.97741 AT (	472875.44,	3673805.38,	67.35,
141.59,	0.00) DC				
	3RD HIGHEST VALUE IS	6.73173 AT (	472891.28,	3673807.65,	68.08,
141.59,	0.00) DC				
	4TH HIGHEST VALUE IS	6.14531 AT (	473040.32,	3673888.88,	78.40,
141.59,	0.00) DC				
	5TH HIGHEST VALUE IS	5.13037 AT (	473079.30,	3673885.15,	79.58,
141.59,	0.00) DC				
	6TH HIGHEST VALUE IS	4.88875 AT (	472930.90,	3673841.50,	68.51,
141.59,	10.00) DC				
	7TH HIGHEST VALUE IS	4.76237 AT (	473070.60,	3673878.51,	81.35,
141.59,	0.00) DC				
	8TH HIGHEST VALUE IS	4.75202 AT (	472971.88,	3673821.23,	77.16,
141.59,	0.00) DC				
	9TH HIGHEST VALUE IS	4.66637 AT (	473002.66,	3673855.19,	82.80,
141.59,	0.00) DC				
	10TH HIGHEST VALUE IS	4.44678 AT (	472879.11,	3673806.27,	67.53,
141.59,	10.00) DC				
SRCGP3	1ST HIGHEST VALUE IS	12.39955 AT (	473046.06,	3673891.87,	78.12,
141.59,	10.00) DC				
	2ND HIGHEST VALUE IS	11.67762 AT (	473044.06,	3673890.54,	78.31,
141.59,	20.00) DC				
	3RD HIGHEST VALUE IS	11.00119 AT (	473078.69,	3673889.03,	78.65,
141.59,	10.00) DC				
	4TH HIGHEST VALUE IS	10.49389 AT (	473080.55,	3673887.63,	78.95,
141.59,	20.00) DC				
	5TH HIGHEST VALUE IS	9.74192 AT (	472931.92,	3673842.83,	68.40,
141.59,	20.00) DC				
	6TH HIGHEST VALUE IS	9.41775 AT (	473073.25,	3673880.28,	80.88,
141.59,	10.00) DC				
	7TH HIGHEST VALUE IS	8.84722 AT (	473072.67,	3673879.75,	81.02,
141.59,	20.00) DC				
	8TH HIGHEST VALUE IS	7.69011 AT (	473040.62,	3673868.69,	83.68,
141.59,	10.00) DC				
	9TH HIGHEST VALUE IS	7.51494 AT (	473001.13,	3673854.27,	82.68,

141.59, 10.00) DC
 10TH HIGHEST VALUE IS 7.44155 AT (472930.90, 3673841.50, 68.51,
 141.59, 10.00) DC

SRCGP4 1ST HIGHEST VALUE IS 11.07550 AT (473046.06, 3673891.87, 78.12,
 141.59, 10.00) DC
 2ND HIGHEST VALUE IS 10.29262 AT (473078.69, 3673889.03, 78.65,
 141.59, 10.00) DC
 3RD HIGHEST VALUE IS 10.23908 AT (473044.06, 3673890.54, 78.31,
 141.59, 20.00) DC
 4TH HIGHEST VALUE IS 9.55344 AT (473080.55, 3673887.63, 78.95,
 141.59, 20.00) DC
 5TH HIGHEST VALUE IS 8.98352 AT (473073.25, 3673880.28, 80.88,
 141.59, 10.00) DC
 6TH HIGHEST VALUE IS 8.12637 AT (473072.67, 3673879.75, 81.02,
 141.59, 20.00) DC
 7TH HIGHEST VALUE IS 7.71322 AT (472931.92, 3673842.83, 68.40,
 141.59, 20.00) DC
 8TH HIGHEST VALUE IS 7.52309 AT (473040.62, 3673868.69, 83.68,
 141.59, 10.00) DC
 9TH HIGHEST VALUE IS 7.00878 AT (473001.13, 3673854.27, 82.68,
 141.59, 10.00) DC
 10TH HIGHEST VALUE IS 6.64009 AT (473040.74, 3673867.73, 83.92,
 141.59, 20.00) DC

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304
 HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -

SRCGP5 1ST HIGHEST VALUE IS 0.51302 AT (472875.44, 3673805.38, 67.35,
 141.59, 0.00) DC
 2ND HIGHEST VALUE IS 0.50349 AT (472891.28, 3673807.65, 68.08,
 141.59, 0.00) DC

141.59,	3RD HIGHEST VALUE IS	0.48169 AT (	472933.39,	3673840.70,	68.78,
	0.00) DC				
141.59,	4TH HIGHEST VALUE IS	0.45370 AT (	472879.11,	3673806.27,	67.53,
	10.00) DC				
141.59,	5TH HIGHEST VALUE IS	0.44777 AT (	472891.41,	3673809.81,	67.85,
	10.00) DC				
141.59,	6TH HIGHEST VALUE IS	0.43269 AT (	472971.88,	3673821.23,	77.16,
	0.00) DC				
141.59,	7TH HIGHEST VALUE IS	0.42941 AT (	472930.90,	3673841.50,	68.51,
	10.00) DC				
141.59,	8TH HIGHEST VALUE IS	0.40168 AT (	473040.32,	3673888.88,	78.40,
	0.00) DC				
141.59,	9TH HIGHEST VALUE IS	0.39453 AT (	473002.66,	3673855.19,	82.80,
	0.00) DC				
141.59,	10TH HIGHEST VALUE IS	0.38696 AT (	473079.30,	3673885.15,	79.58,
	0.00) DC				
SRCGP6	1ST HIGHEST VALUE IS	0.53018 AT (	472875.44,	3673805.38,	67.35,
141.59,	0.00) DC				
141.59,	2ND HIGHEST VALUE IS	0.52014 AT (	472891.28,	3673807.65,	68.08,
	0.00) DC				
141.59,	3RD HIGHEST VALUE IS	0.49720 AT (	472933.39,	3673840.70,	68.78,
	0.00) DC				
141.59,	4TH HIGHEST VALUE IS	0.46786 AT (	472879.11,	3673806.27,	67.53,
	10.00) DC				
141.59,	5TH HIGHEST VALUE IS	0.46162 AT (	472891.41,	3673809.81,	67.85,
	10.00) DC				
141.59,	6TH HIGHEST VALUE IS	0.44575 AT (	472971.88,	3673821.23,	77.16,
	0.00) DC				
141.59,	7TH HIGHEST VALUE IS	0.44237 AT (	472930.90,	3673841.50,	68.51,
	10.00) DC				
141.59,	8TH HIGHEST VALUE IS	0.41327 AT (	473040.32,	3673888.88,	78.40,
	0.00) DC				
141.59,	9TH HIGHEST VALUE IS	0.40587 AT (	473002.66,	3673855.19,	82.80,
	0.00) DC				
141.59,	10TH HIGHEST VALUE IS	0.39786 AT (	473079.30,	3673885.15,	79.58,
	0.00) DC				
ALL	1ST HIGHEST VALUE IS	31.51003 AT (	473046.06,	3673891.87,	78.12,
141.59,	10.00) DC				
141.59,	2ND HIGHEST VALUE IS	29.04036 AT (	472933.39,	3673840.70,	68.78,
	0.00) DC				
141.59,	3RD HIGHEST VALUE IS	28.63547 AT (	473078.69,	3673889.03,	78.65,
	10.00) DC				
141.59,	4TH HIGHEST VALUE IS	26.19305 AT (	472875.44,	3673805.38,	67.35,
	0.00) DC				
141.59,	5TH HIGHEST VALUE IS	26.11550 AT (	473040.32,	3673888.88,	78.40,
	0.00) DC				
141.59,	6TH HIGHEST VALUE IS	25.91161 AT (	473044.06,	3673890.54,	78.31,
	20.00) DC				

7TH HIGHEST VALUE IS 25.77868 AT (472891.28, 3673807.65, 68.08,
 141.59, 0.00) DC
 8TH HIGHEST VALUE IS 25.17466 AT (473073.25, 3673880.28, 80.88,
 141.59, 10.00) DC
 9TH HIGHEST VALUE IS 24.37891 AT (472930.90, 3673841.50, 68.51,
 141.59, 10.00) DC
 10TH HIGHEST VALUE IS 23.83616 AT (473080.55, 3673887.63, 78.95,
 141.59, 20.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR
 RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
 **

				DATE			
				NETWORK			
GROUP ID				AVERAGE CONC		(YYMMDDHH)	
(XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE GRID-ID			
-----				-----		-----	
-----				-----		-----	
SRCGP1	HIGH	1ST HIGH VALUE IS	39.51065	ON	19011802:	AT (	473040.32,
3673888.88,		78.40, 141.59,	0.00) DC				
SRCGP2	HIGH	1ST HIGH VALUE IS	40.18057	ON	19011802:	AT (	473040.32,
3673888.88,		78.40, 141.59,	0.00) DC				
SRCGP3	HIGH	1ST HIGH VALUE IS	350.83291	ON	21122608:	AT (	473080.55,
3673887.63,		78.95, 141.59,	20.00) DC				
SRCGP4	HIGH	1ST HIGH VALUE IS	257.01885	ON	21120520:	AT (	473080.55,
3673887.63,		78.95, 141.59,	20.00) DC				
SRCGP5	HIGH	1ST HIGH VALUE IS	15.03528	ON	20012819:	AT (	472875.44,
3673805.38,		67.35, 141.59,	0.00) DC				

SRCGP6 HIGH 1ST HIGH VALUE IS 15.41446 ON 20012819: AT (472875.44,
3673805.38, 67.35, 141.59, 0.00) DC

ALL HIGH 1ST HIGH VALUE IS 445.17885 ON 20100419: AT (473044.06,
3673890.54, 78.31, 141.59, 20.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL 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 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
ME W186 1951 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 1951 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 816 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3276208.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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 Accepts 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: 816 Source(s); 7 Source Group(s); and 29
Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 812 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**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) = 92.00 ; 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 = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Trolley Place Ops.err

**File for Summary of Results: Trolley Place Ops.sum

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL 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

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							
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	
1.00	1.57	25.		7.9	280.3	2.0								
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	
1.00	1.79	35.		7.9	279.8	2.0								
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	
1.00	2.45	31.		7.9	279.2	2.0								
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	
1.00	1.77	41.		7.9	278.1	2.0								
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93	
1.00	2.18	30.		7.9	279.2	2.0								
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93	
1.00	2.10	24.		7.9	278.8	2.0								
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93	
1.00	2.20	6.		7.9	279.8	2.0								
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93	
0.50	3.42	40.		7.9	280.9	2.0								
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93	
0.29	2.61	41.		7.9	283.1	2.0								
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93	
0.22	2.67	7.		7.9	284.8	2.0								
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93	
0.20	2.57	17.		7.9	286.4	2.0								
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93	
0.19	2.62	2.		7.9	287.0	2.0								
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93	
0.19	3.35	353.		7.9	287.5	2.0								
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93	
0.20	2.88	7.		7.9	288.8	2.0								
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93	
0.23	3.07	64.		7.9	288.8	2.0								
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93	
0.32	4.29	87.		7.9	287.0	2.0								
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93	
0.60	3.93	114.		7.9	285.3	2.0								
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93	
1.00	1.53	116.		7.9	283.8	2.0								
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93	
1.00	1.57	98.		7.9	282.0	2.0								
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93	
1.00	1.11	98.		7.9	279.8	2.0								
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93	
1.00	1.43	25.		7.9	279.8	2.0								
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93	
1.00	1.64	39.		7.9	279.2	2.0								
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93	

1.00 2.44 49. 7.9 279.2 2.0
 19 01 01 1 24 -25.8 0.257 -9.000 -9.000 -999. 312. 72.5 0.03 0.93
 1.00 3.83 69. 7.9 280.3 2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	7.9	1	25.	1.57	280.4	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304
 HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
SRCGP1	1ST HIGHEST VALUE IS	7.58140 AT (	472933.39, 3673840.70, 68.78,
141.59,	0.00) DC		
	2ND HIGHEST VALUE IS	6.70750 AT (	472875.44, 3673805.38, 67.35,
141.59,	0.00) DC		
	3RD HIGHEST VALUE IS	6.48762 AT (	472891.28, 3673807.65, 68.08,
141.59,	0.00) DC		
	4TH HIGHEST VALUE IS	6.19829 AT (	473040.32, 3673888.88, 78.40,
141.59,	0.00) DC		
	5TH HIGHEST VALUE IS	5.19671 AT (	473079.30, 3673885.15, 79.58,
141.59,	0.00) DC		
	6TH HIGHEST VALUE IS	4.81068 AT (	473070.60, 3673878.51, 81.35,
141.59,	0.00) DC		
	7TH HIGHEST VALUE IS	4.76988 AT (	472930.90, 3673841.50, 68.51,
141.59,	10.00) DC		
	8TH HIGHEST VALUE IS	4.68802 AT (	472971.88, 3673821.23, 77.16,
141.59,	0.00) DC		
	9TH HIGHEST VALUE IS	4.63796 AT (	473002.66, 3673855.19, 82.80,
141.59,	0.00) DC		

141.59,	10TH HIGHEST VALUE IS 0.00) DC	4.46057 AT (	473039.49,	3673867.31,	83.99,
SRCGP2	141.59,	1ST HIGHEST VALUE IS 0.00) DC	7.94452 AT (	472933.39,	3673840.70,
141.59,	2ND HIGHEST VALUE IS 0.00) DC	6.97741 AT (	472875.44,	3673805.38,	67.35,
141.59,	3RD HIGHEST VALUE IS 0.00) DC	6.73173 AT (	472891.28,	3673807.65,	68.08,
141.59,	4TH HIGHEST VALUE IS 0.00) DC	6.14531 AT (	473040.32,	3673888.88,	78.40,
141.59,	5TH HIGHEST VALUE IS 0.00) DC	5.13037 AT (	473079.30,	3673885.15,	79.58,
141.59,	6TH HIGHEST VALUE IS 10.00) DC	4.88875 AT (	472930.90,	3673841.50,	68.51,
141.59,	7TH HIGHEST VALUE IS 0.00) DC	4.76237 AT (	473070.60,	3673878.51,	81.35,
141.59,	8TH HIGHEST VALUE IS 0.00) DC	4.75202 AT (	472971.88,	3673821.23,	77.16,
141.59,	9TH HIGHEST VALUE IS 0.00) DC	4.66637 AT (	473002.66,	3673855.19,	82.80,
141.59,	10TH HIGHEST VALUE IS 10.00) DC	4.44678 AT (	472879.11,	3673806.27,	67.53,
SRCGP3	141.59,	1ST HIGHEST VALUE IS 10.00) DC	12.39955 AT (	473046.06,	3673891.87,
141.59,	2ND HIGHEST VALUE IS 20.00) DC	11.67762 AT (	473044.06,	3673890.54,	78.31,
141.59,	3RD HIGHEST VALUE IS 10.00) DC	11.00119 AT (	473078.69,	3673889.03,	78.65,
141.59,	4TH HIGHEST VALUE IS 20.00) DC	10.49389 AT (	473080.55,	3673887.63,	78.95,
141.59,	5TH HIGHEST VALUE IS 20.00) DC	9.74192 AT (	472931.92,	3673842.83,	68.40,
141.59,	6TH HIGHEST VALUE IS 10.00) DC	9.41775 AT (	473073.25,	3673880.28,	80.88,
141.59,	7TH HIGHEST VALUE IS 20.00) DC	8.84722 AT (	473072.67,	3673879.75,	81.02,
141.59,	8TH HIGHEST VALUE IS 10.00) DC	7.69011 AT (	473040.62,	3673868.69,	83.68,
141.59,	9TH HIGHEST VALUE IS 10.00) DC	7.51494 AT (	473001.13,	3673854.27,	82.68,
141.59,	10TH HIGHEST VALUE IS 10.00) DC	7.44155 AT (	472930.90,	3673841.50,	68.51,
SRCGP4	141.59,	1ST HIGHEST VALUE IS 10.00) DC	11.07550 AT (	473046.06,	3673891.87,
141.59,	2ND HIGHEST VALUE IS 10.00) DC	10.29262 AT (	473078.69,	3673889.03,	78.65,
141.59,	3RD HIGHEST VALUE IS	10.23908 AT (	473044.06,	3673890.54,	78.31,

141.59, 20.00) DC
 4TH HIGHEST VALUE IS 9.55344 AT (473080.55, 3673887.63, 78.95,
 141.59, 20.00) DC
 5TH HIGHEST VALUE IS 8.98352 AT (473073.25, 3673880.28, 80.88,
 141.59, 10.00) DC
 6TH HIGHEST VALUE IS 8.12637 AT (473072.67, 3673879.75, 81.02,
 141.59, 20.00) DC
 7TH HIGHEST VALUE IS 7.71322 AT (472931.92, 3673842.83, 68.40,
 141.59, 20.00) DC
 8TH HIGHEST VALUE IS 7.52309 AT (473040.62, 3673868.69, 83.68,
 141.59, 10.00) DC
 9TH HIGHEST VALUE IS 7.00878 AT (473001.13, 3673854.27, 82.68,
 141.59, 10.00) DC
 10TH HIGHEST VALUE IS 6.64009 AT (473040.74, 3673867.73, 83.92,
 141.59, 20.00) DC
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304
 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
-----	-----	-----	-----
-----	-----	-----	-----

SRCGP5 1ST HIGHEST VALUE IS 0.51302 AT (472875.44, 3673805.38, 67.35,
 141.59, 0.00) DC
 2ND HIGHEST VALUE IS 0.50349 AT (472891.28, 3673807.65, 68.08,
 141.59, 0.00) DC
 3RD HIGHEST VALUE IS 0.48169 AT (472933.39, 3673840.70, 68.78,
 141.59, 0.00) DC
 4TH HIGHEST VALUE IS 0.45370 AT (472879.11, 3673806.27, 67.53,
 141.59, 10.00) DC
 5TH HIGHEST VALUE IS 0.44777 AT (472891.41, 3673809.81, 67.85,
 141.59, 10.00) DC
 6TH HIGHEST VALUE IS 0.43269 AT (472971.88, 3673821.23, 77.16,
 141.59, 0.00) DC
 7TH HIGHEST VALUE IS 0.42941 AT (472930.90, 3673841.50, 68.51,

141.59,	10.00) DC				
	8TH HIGHEST VALUE IS	0.40168	AT (	473040.32,	3673888.88,
141.59,	0.00) DC				78.40,
	9TH HIGHEST VALUE IS	0.39453	AT (	473002.66,	3673855.19,
141.59,	0.00) DC				82.80,
	10TH HIGHEST VALUE IS	0.38696	AT (	473079.30,	3673885.15,
141.59,	0.00) DC				79.58,
SRCGP6	1ST HIGHEST VALUE IS	0.53018	AT (	472875.44,	3673805.38,
141.59,	0.00) DC				67.35,
	2ND HIGHEST VALUE IS	0.52014	AT (	472891.28,	3673807.65,
141.59,	0.00) DC				68.08,
	3RD HIGHEST VALUE IS	0.49720	AT (	472933.39,	3673840.70,
141.59,	0.00) DC				68.78,
	4TH HIGHEST VALUE IS	0.46786	AT (	472879.11,	3673806.27,
141.59,	10.00) DC				67.53,
	5TH HIGHEST VALUE IS	0.46162	AT (	472891.41,	3673809.81,
141.59,	10.00) DC				67.85,
	6TH HIGHEST VALUE IS	0.44575	AT (	472971.88,	3673821.23,
141.59,	0.00) DC				77.16,
	7TH HIGHEST VALUE IS	0.44237	AT (	472930.90,	3673841.50,
141.59,	10.00) DC				68.51,
	8TH HIGHEST VALUE IS	0.41327	AT (	473040.32,	3673888.88,
141.59,	0.00) DC				78.40,
	9TH HIGHEST VALUE IS	0.40587	AT (	473002.66,	3673855.19,
141.59,	0.00) DC				82.80,
	10TH HIGHEST VALUE IS	0.39786	AT (	473079.30,	3673885.15,
141.59,	0.00) DC				79.58,
ALL	1ST HIGHEST VALUE IS	31.51003	AT (	473046.06,	3673891.87,
141.59,	10.00) DC				78.12,
	2ND HIGHEST VALUE IS	29.04036	AT (	472933.39,	3673840.70,
141.59,	0.00) DC				68.78,
	3RD HIGHEST VALUE IS	28.63547	AT (	473078.69,	3673889.03,
141.59,	10.00) DC				78.65,
	4TH HIGHEST VALUE IS	26.19305	AT (	472875.44,	3673805.38,
141.59,	0.00) DC				67.35,
	5TH HIGHEST VALUE IS	26.11550	AT (	473040.32,	3673888.88,
141.59,	0.00) DC				78.40,
	6TH HIGHEST VALUE IS	25.91161	AT (	473044.06,	3673890.54,
141.59,	20.00) DC				78.31,
	7TH HIGHEST VALUE IS	25.77868	AT (	472891.28,	3673807.65,
141.59,	0.00) DC				68.08,
	8TH HIGHEST VALUE IS	25.17466	AT (	473073.25,	3673880.28,
141.59,	10.00) DC				80.88,
	9TH HIGHEST VALUE IS	24.37891	AT (	472930.90,	3673841.50,
141.59,	10.00) DC				68.51,
	10TH HIGHEST VALUE IS	23.83616	AT (	473080.55,	3673887.63,
141.59,	20.00) DC				78.95,

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
 Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 04/12/24
 *** AERMET - VERSION 22112 *** ***
 *** 13:25:01

PAGE 6

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID				NETWORK	DATE		RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)				AVERAGE CONC OF TYPE GRID-ID	(YYMMDDHH)		
SRCGP1	HIGH	1ST HIGH VALUE IS	39.51065	ON 19011802: AT (	473040.32,		
3673888.88,		78.40, 141.59,	0.00)	DC			
SRCGP2	HIGH	1ST HIGH VALUE IS	40.18057	ON 19011802: AT (	473040.32,		
3673888.88,		78.40, 141.59,	0.00)	DC			
SRCGP3	HIGH	1ST HIGH VALUE IS	350.83291	ON 21122608: AT (	473080.55,		
3673887.63,		78.95, 141.59,	20.00)	DC			
SRCGP4	HIGH	1ST HIGH VALUE IS	257.01885	ON 21120520: AT (	473080.55,		
3673887.63,		78.95, 141.59,	20.00)	DC			
SRCGP5	HIGH	1ST HIGH VALUE IS	15.03528	ON 20012819: AT (	472875.44,		
3673805.38,		67.35, 141.59,	0.00)	DC			
SRCGP6	HIGH	1ST HIGH VALUE IS	15.41446	ON 20012819: AT (	472875.44,		
3673805.38,		67.35, 141.59,	0.00)	DC			
ALL	HIGH	1ST HIGH VALUE IS	445.17885	ON 20100419: AT (	473044.06,		
3673890.54,		78.31, 141.59,	20.00)	DC			

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** *** C:\Users\enuno\OneDrive -
Dudek\Desktop\HARP2\HARP\Trolley Place Con *** 04/12/24

*** AERMET - VERSION 22112 *** ***
*** 13:25:01

PAGE 7

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL 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 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
ME W186 1951 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 1951 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

HARP2 - HRACalc (dated 22118) 4/12/2024 1:47:22 PM - 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: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
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: True
Dermal: True
Mother's milk: True
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

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Warm

TIER 2 SETTINGS

Tier2 not used.

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\OLIVE PARK APTS RAIL

OPS\hra\Olive_Park_Rail_UnmitCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\OLIVE PARK APTS RAIL

OPS\hra\Olive_Park_Rail_UnmitCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\OLIVE PARK APTS RAIL

OPS\hra\Olive_Park_Rail_UnmitNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\OLIVE PARK APTS RAIL

OPS\hra\Olive_Park_Rail_UnmitNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\OLIVE PARK APTS RAIL

OPS\hra\Olive_Park_Rail_UnmitNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\HARP2\HARP\OLIVE PARK APTS RAIL

OPS\hra\Olive_Park_Rail_UnmitNCAcuteRiskSumByRec.csv

HRA ran successfully

Appendix C

Climate Action Plan Consistency Checklist



Climate Action Plan (CAP) Consistent Checklist

For New Development Subject to Environmental Review
per the California Environmental Quality Act (CEQA)

With the adoption of the **Climate Action Plan (CAP)** on May 8, 2019, the City of Oceanside committed to measures designed to reduce local greenhouse gas (GHG) emissions in a manner consistent with state emissions reduction goals. In addition to City initiatives and voluntary community efforts, these measures include **requirements for certain types of new development**. These requirements promote local renewable energy generation, electric vehicle charging infrastructure, urban forestry, reduction in single-occupancy vehicle trips, recycled water use, and other efforts that reduce the City's carbon footprint while enhancing its energy and water independence.

The **CAP Consistency Checklist (Checklist)** consolidates these requirements within a single document, allowing for streamlined compliance review.

The **California Environmental Quality Act (CEQA)** requires that the potential GHG emissions impacts of new development be analyzed, and that significant emissions impacts be mitigated to the extent feasible. Under CEQA, local jurisdictions can establish their own significance thresholds for GHG emissions impacts.

The City of Oceanside has set a significance threshold that aligns with the City's emissions reduction targets as outlined in the CAP (3.5MT CO₂^e per service population). This threshold is discussed in a policy directive that can be furnished upon request. While applicants can choose to conduct project-specific GHG emissions analysis to demonstrate compliance with the City's significance threshold, conforming to the requirements consolidated in the Checklist may be a more expeditious way to address CEQA requirements.

Applicants who choose to utilize the Checklist should factor the associated requirements into the project design process and submit the Checklist concurrently with the initial entitlement application.

CITY OF OCEANSIDE CLIMATE ACTION PLAN (CAP) CONSISTENCY CHECKLIST

Project Information

Contact Information

Project Number: _____ Project Name: Olive Park ApartmentsProperty Address/APN: 162-111-04Applicant: Capstone EquitiesAddress: 5455 Wilshire Boulevard, Suite 1012, Los Angeles, CA 90036

Phone Number: _____ Email: _____

Is the Checklist being prepared by a professional consultant? ☒ Yes ☐ NoConsultant Firm: Dudek Point of Contact: _____

Phone Number: _____ Email: _____

Project Description

Project Site Area (Acres): 43.5 Status: ☒ Vacant ☐ Developed

If the site is developed, describe nature of existing development: _____

Located within a Smart Growth Opportunity Area? ☒ Yes ☐ NoLocated within ¼ mile of a priority corridor? ☒ Yes ☐ NoConsistent with current land use and zoning designations? ☒ Yes ☐ NoProposed land use(s): ☒ Residential ☐ Commercial ☐ Industrial ☐ InstitutionalResidential density: <9.9 Percentage of maximum allowable density: 83%

Commercial FAR: _____ Percentage above minimum commercial FAR: _____

Industrial FAR: _____ Percentage of permeable surface area: min of 22%

Applicability

In accordance with Section 15183.5 of the California Environmental Quality Act (CEQA), the Checklist provides for streamlined review of projects subject to environmental review, offering an alternative to project-specific analysis of GHG emissions impacts. The Checklist is available to projects that meet locational requirements that further the City's efforts to facilitate housing and employment growth in walkable, transit-served areas, as well as projects that either 1) conform to current land use and zoning standards or 2) involve uses that would generate less GHG emissions than those allowed under current standards. Projects not located in walkable, transit-served areas are subject to additional Checklist requirements meant to encourage project design features that facilitate sustainable modes of transportation.

The Checklist is not mandatory. As part of the CEQA process, applicants can choose to mitigate significant GHG emissions impacts by other means. However, the City, as the lead agency for the CEQA process, reserves its discretion to determine if proposed mitigation measures are appropriate and adequate. For example, the City may or may not be amenable to out-of-jurisdiction carbon offsets as a means of mitigating significant GHG emissions impacts, based on the feasibility of on-site mitigation measures, opportunities for local offsets, etc.

Consistent with California's Climate Change Scoping Plan, the City has established a bright line threshold of significance for GHG emissions impacts: 900MT annually, with construction-related emissions amortized over 20 years. Projects that fall under this threshold are not required to conduct analysis of GHG emissions impacts, and thus would not benefit from the Checklist.

CEQA-exempted projects may still be subject to CAP measures. Requirements for on-site renewable energy generation, electric vehicle charging facilities, and transportation demand management (TDM) are triggered by project type and scale, as outlined in Section 3047 of the City's Zoning Ordinance.

The applicability of the Checklist may evolve in response to the City's progress in achieving its emissions reduction goals, new state policies or regulations, new methods of mitigating GHG emissions, etc. When the CAP is periodically updated, it is likely that the Checklist will need to be revised to accord with new or modified emissions reduction measures. The CEQA-qualified status of the CAP, which is the basis for its legal enforceability, relies upon a Checklist that ensures that new development supports the City's emissions reduction goals.

Checklist

Land Use Consistency

The City seeks to accommodate future housing and job growth primarily through infill and redevelopment within already urbanized areas. Specifically, the City seeks to facilitate new residential and employment-oriented development within SANDAG-designated Smart Growth Opportunity Areas and prior corridors (i.e., Coast Hwy, Mission Avenue, Oceanside Blvd, Vista Way). To this end, the Checklist includes locational criteria for new development subject to CEQA review.

Does the project meet one or more of the following locational criteria?

- 1) The project site is located within a designated Smart Growth Opportunity Area¹.

☒ Yes ☐ No

- 2) The project site is located within ¼ mile of a priority TOD corridor, as determined by the Smart and Sustainable Corridors Plan and/or SB 743 screen-out boundaries.

☒ Yes ☐ No

- 3) The project is consistent with current land use and zoning designations.

☒ Yes ☐ No

- 4) The project requires amendment of current land use and zoning designations. As demonstrated through a detailed analysis a) consistent with the precedent in the surrounding zoning district and b) subject to third party expert review, the proposed land uses would generate less GHG emissions than those associated with uses allowed under current land use and zoning designations.

☐ Yes ☒ No

¹ Smart Growth Opportunity Areas shall be defined as the half-mile radius around transit facilities identified on the current version of the SANDAG Smart Growth Concept Map.

Projects that do not qualify under any of the above criteria are not eligible for the Checklist. Projects that qualify under Criteria 3 or 4 are subject to additional Checklist requirements, as specified below.

CAP Measure Consistency

Renewable Energy Facilities

Outlined in Section 3047 of the City's Zoning Ordinance, this Checklist requirement applies to the following types of new development:

- Residential projects that include 25 or more dwelling units
- Commercial projects that comprise at least 12,500 square feet of habitable space
- Industrial projects that comprise at least 25,000 square feet of habitable space
- Institutional projects that comprise at least 12,500 square feet of habitable space

Does the project meet one or more of the above-noted thresholds?

☒ Yes ☐ No

If yes, will at least 50 percent of estimated electricity demand be met with on-site renewable, emissions-free energy supply (e.g., solar photovoltaic facilities)?

☒ Yes ☐ No

If no, will the project purchase an energy portfolio comprised of at least 75 percent renewable, emissions-free electricity?

☐ Yes ☐ No

Electric Vehicle Parking and Charging Facilities

Outlined in Section 3048 of the City's Zoning Ordinance, this Checklist requirement is applicable to new development that requires at least five (5) parking spaces.

Is the project subject to this requirement?

☒ Yes ☐ No

If yes, how many electric vehicle parking stalls is the project required to provide?

25

If yes, how many electric vehicle charging stations is the project required to provide?

at least 25

Briefly describe where the required parking spaces and charging stations will be located within the project site. Note the plan sheet(s) on which the parking spaces and charging stations are depicted.

Final locations are still being finalized

Recycled Water Infrastructure

The applicability of this requirement is determined by the City's Water Utilities Department. Does the Water Utilities Department require that the project install infrastructure to provide for recycled water service?

☐ Yes ☒ No

If yes, will the project install the required infrastructure?

☐ Yes ☐ No

If yes, please briefly describe how the project will fulfill this requirement.

Transportation Demand Management (TDM)

As outlined in Section 3050 of the City's Zoning Ordinance, the City requires that all new non-residential development expected to generate at least 50 daily employee commute trips prepare and implement a transportation demand management (TDM) plan that achieves a minimum 20 percent alternative commute mode share, with alternative commute modes being those that don't involve single-occupancy vehicle commute trips in combustion engine vehicles. The City does not prescribe specific TDM measures but rather allows developers and employers to tailor their TDM plans to suit their business location and operations.

Is the project subject to this requirement?

☐ Yes ☒ No

If yes, does the applicant accept this requirement as a condition of project approval?

☐ Yes ☐ No

If yes, please provide a preliminary indication of the resources that will be utilized to prepare the TDM Plan (e.g., qualified traffic consultant, SANDAG Mobility Management Toolbox).

The TDM Plan must include a monitoring and reporting program that commits the project to submitting a bi-annual status report to the City. Does the applicant agree to conduct ongoing monitoring and reporting of employee commuting choices?

☐ Yes ☐ No

Urban Forestry

As part of its urban forestry efforts, the City requires that all new development establish a minimum tree canopy and permeable surface area. When meeting the minimum tree canopy and permeable surface area requirements on the project site is determined to be infeasible,

applicants can pursue alternatives. Listed in order of preference, these alternatives include installing trees in adjacent public parkways, installing trees elsewhere in the City (subject to review and approval by the Public Works Department), or paying into the City's Tree Fund, should such a fund be established. Minimum tree canopy and permeable surface area requirements are outlined in Section 3049 of the City's Zoning Ordinance.

Does the project comply with minimum tree canopy and permeable surface area requirements?

☒ Yes ☐ No

If yes, do the applicant and successors agree to maintain minimum tree canopy and permeable surface area throughout the life of the project?

☒ Yes ☐ No

Does the applicant intend to pursue one of the above-noted alternatives to establishing minimum on-site tree canopy?

☐ Yes ☒ No

If yes, which alternative does the applicant intend to pursue?

- ☐ Tree installation in the adjacent public parkway
- ☐ Tree installation elsewhere in the City, as approved by the Public Works Department
- ☐ Payment into the City's Tree Fund, in an amount determined by the Public Works Department

If one of the above-noted alternatives is proposed, please explain why compliance with the on-site requirement is infeasible and why the proposed alternative is the most appropriate option.

Food Scraps Recycling Program

In accordance with state law (AB 1826 and SB 1383), all non-residential uses are required to participate in the City's Food Scraps Recycling Program, which involves placement of food scraps in a separate bin for separate processing. The City's Water Utilities Department and Waste Management of North County provide free technical assistance and training for businesses and their employees.

Is the project subject to this requirement?

☐ Yes ☒ No

If yes, does the applicant agree to ensure that all business owners and employees associated with the project participate in relevant training?

☐ Yes ☐ No

Oceanside Green Business Network (Voluntary)

Supported by the City's Water Utilities Department, the Oceanside Green Business Network is a free program that encourages environmental stewardship in the local business community and provides members with strategies designed to help them thrive in the green economy. While membership is voluntary, applicants for non-residential development as well as those operating businesses within the development are strongly encouraged to join the Network. Membership is contingent upon earning a minimum score on the Network's [Sustainability Scorecard](#).

Does the applicant intend to join and promote membership in the Oceanside Green Business Network?

☐ Yes ☒ No

Energy Efficiency Audits & Analysis (Applicable Only to Projects Not Meeting Locational Criteria 1 or 2)

San Diego Gas and Electric (SDG&E) offers a variety of energy audits and evaluations for both residential and non-residential ratepayers. These programs identify opportunities for enhanced energy efficiency, which can result in lower energy costs. SDG&E services for non-residential development include the Comprehensive Audit Program and the Facility Assessment Service

Program. Applicants for non-residential development located outside of Smart Growth Opportunities areas or a ¼-mile radius of a priority corridor are required to participate in one of the above-noted programs no sooner than one year and no later than two years after initial building occupancy. Applicants are not required to implement the recommendations of the audit.

Is the project subject to this requirement?

☐ Yes ☐ No

If yes, does the applicant agree to participate in an SDG&E energy efficiency audit program within the above-noted timeframe?

☐ Yes ☐ No

Mitigation of Per Capita Vehicle Miles Traveled (VMT) above Baseline (Applicable Only to Projects Not Meeting Locational Criteria 1 or 2)

Consistent with state law (AB 743), the City's CEQA review process includes assessment of impacts on vehicle miles traveled (VMT). In general, projects located in walkable, transit-rich areas are expected to generate less VMT than those located in peripheral areas with more dispersed land use patterns. Projects not meeting locational criteria 1 or 2 are required to incorporate project features that reduce VMT by at least 15 percent below the regional average, consistent with the City's [Traffic Impact Analysis Guidelines for Vehicle Miles Traveled \(VMT\) and Level of Service Assessment](#).

Is the project subject to this requirement?

☐ Yes ☒ No

If yes, will the project include features that will reduce estimated VMT by at least 15 percent below the regional average, consistent with the City's Traffic Impact Analysis Guidelines for Vehicle Miles Traveled (VMT) and Level of Service Assessment?

☐ Yes ☐ No

STAFF DETERMINATION REGARDING CHECKLIST COMPLIANCE

Does the project comply with the City's CAP Consistency Checklist?

☐ Yes ☐ No

If not, what additional information and/or commitments are required?

Staff Reviewer: _____

Staff Email: _____

Date: _____

Appendix D

Energy Calculations

Construction				
Source	Percent	Total MTCC	Gallons	
			Diesel	Gasoline
2026				
Off-road	66.2%	652	63,813	
Electricity	0.0%	0		
Worker	14.8%	146		16,590
Vendor	6.8%	67	6,555	
Hauling	12.2%	120	11,760	
Onsite Truck	0.0%	0	0	
Total	100.0%	984	82,127	16,590
2027				
Off-road	64.3%	214	20,942	
Electricity	0.0%	0		
Worker	23.0%	76		8,711
Vendor	12.7%	42	4,136	
Hauling	0.0%	0	0	
Onsite Truck	0.0%	0	0	
Total	100.0%	333	25,078	8,711
Total Construction Period				
Off-road	65.7%	865	84,755	0
Electricity	0.0%	0	0	0
Worker	16.9%	222	0	25,301
Vendor	8.3%	109	10,691	0
Hauling	9.1%	120	11,760	0
Onsite Truck	0.0%	0	0	0
Total	100.0%	1,317	107,206	25,301

Operation				
Source	Percent	Total MTCO ₂	Gallons	
			Diesel	Gasoline
Mobile Exhaust Gasoline	69.9%	925.86		105,451
Mobile Exhaust Diesel	16.9%	224.54	21,992	
Landscape Equipment	0.3%	3.98	389	
Electricity	1.1%	14.58		
Natural Gas Energy	9.6%	127.23		
Water and Wastewater	0.4%	5.30		
Solid Waste	1.8%	23.86		
Hearths	0.0%	0.00	0	
		0.00	0	105,451
Total	100.0%	1325.34	22,381	
Type				
Petroleum		105,451	gallons/year	
Electricity - unmitigated		642,876	kWh/year	
Natural Gas		2,402,183	kBTU/year	
Electricity - mitigated		642,875.52		

Constants		
Fuel	KgCO ₂ /Gall	1000 Kg in MT
Gasoline	8.78	
Diesel	10.21	

Source: The Climate Registry 2021

Table 2-1 U.S. Default Factors for Calculating CO₂ Emissions from Combustion of Transport Fuels

Fuel Type	Carbon Content (Per Unit Energy)	Heat Content	Fraction Oxidized	CO ₂ Emission Factor (Per Unit Volume)
Fuels Measured in Gallons	kg C / MMBtu	MMBtu / barrel		kg CO ₂ / gallon
Gasoline	19.2	5.25	1	8.78
Diesel Fuel	20.2	5.80	1	10.21

