
Appendix B

AQ-GHG Technical Report

Air Quality and Greenhouse Gas Emissions Technical Report

Fenton Parkway Bridge Project

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
°C	degrees Celsius
°F	degrees Fahrenheit
µg/m ³	micrograms per cubic meter
AB	Assembly Bill
ATCM	Airborne Toxic Control Measure
C&D	Construction and Demolition
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California's Green Building Standards
CalRecycle	California Department of Resources Recycling and Recovery
CAP	Climate Action Plan
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFCs	chlorofluorocarbons
CH ₄	methane
City	City of San Diego
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	carbon dioxide equivalent
CPUC	California Public Utilities Commission
CSU	California State University
DPM	diesel particulate matter
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	electric vehicle
GHG	greenhouse gas
GWP	global warming potential
H ₂ S	hydrogen sulfide
HAP	hazardous air pollutant
HCFC	hydrochlorofluorocarbon
HFC	hydrofluorocarbon
I	Interstate
IPCC	Intergovernmental Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LOS	level of service
MMT	million metric ton
MPO	metropolitan planning organization
MT CO _{2e}	metric tons of CO ₂ equivalent

Acronym/Abbreviation	Definition
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NF ₃	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
O ₃	ozone
PFC	perfluorocarbon
PM ₁₀	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
ppb	parts per billion
ppm	parts per million
project	Fenton Parkway Project
RAQS	Regional Air Quality Strategy
RFS	Renewable Fuel Standard
RTP	Regional Transportation Plan
SAFE	Safer Affordable Fuel-Efficient
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SF ₆	sulfur hexafluoride
SIP	State Implementation Plan
SLCP	short-lived climate pollutant
SO ₂	sulfur dioxide
SO _x	sulfur oxides
TAC	toxic air contaminants
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 and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Fenton Parkway Bridge Project (proposed project or project) in the City of San Diego (City). This assessment utilizes the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.) and the San Diego Air Pollution Control District (SDAPCD) Air Quality Impact Analysis trigger levels for new or modified stationary sources (SDAPCD Rules 20.2 and 20.3)¹ for air quality, and other applicable thresholds of significance.

Project Overview

The project would involve construction of a vehicular and pedestrian bridge spanning the San Diego River from north to south, connecting Fenton Parkway with Camino Del Rio North in the City. The bridge would span the Mission Valley Community of the City. The proposed project is referenced in the Mission Valley Community Plan (adopted by the City in 2019) and is a long-sought infrastructure enhancement in the Mission Valley Community that would connect residents and businesses south of the San Diego River to land uses north of the river off Friars Road, including the San Diego State University (SDSU) Mission Valley development, which was approved by the Board of Trustees of the California State University (CSU) in 2020 (City of San Diego 2019).

Air Quality

The air quality impact analysis evaluates the potential for significant impacts to air quality due to construction and operational emissions resulting from the project. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O₃), nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide (SO₂), coarse particulate matter (PM₁₀), fine particulate matter (PM_{2.5}), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs) (also referred to 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.

Air Quality Plan Consistency

Regarding consistency with local air quality plans, given that the proposed project would not result in development or growth beyond that which was contemplated by the San Diego Association of Governments (SANDAG's) regional growth projections, it was accounted for in the development of the Regional Air Quality Strategy and State Implementation Plan. As such, implementation of the proposed project would not conflict with or obstruct implementation of the applicable air quality management plans for the region, and impacts would be **less than significant**.

¹ The SDAPCD Rule 20.2 and 20.3 trigger levels are specified for new or modified stationary sources, and do not generally apply to mobile sources or general land development projects. However, both the City and County of San Diego have recommended the trigger levels for evaluation of increased emissions discharged to the San Diego Air Basin (SDAB) from proposed land development projects.

Potential to Result in a Cumulatively Considerable Net Increase of Any Nonattainment Criteria Pollutant

The San Diego Air Basin (SDAB), where the project is located has been designated as a national nonattainment area for O₃, and a California nonattainment area for O₃, PM₁₀, and PM_{2.5}. 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). Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) based on information provided by project engineers, typical construction practices, and default assumptions where appropriate. The analysis concluded that maximum daily construction emissions generated by the proposed project would not exceed the applicable daily significance thresholds for any criteria air pollutant. Additionally, once construction is complete, the project is not expected to result in a substantial net increase in criteria air pollutants beyond periodic maintenance characteristic of typical existing roadways. Further, the project is not expected to increase vehicle miles traveled (VMT) within the region, given that the bridge and roadway expansion will provide a more direct route to and from destinations.

The nonattainment status of the SDAB is the result of cumulative emissions from various sources of air pollutants and their precursors within the SDAB, including motor vehicles, off-road equipment, and commercial and industrial facilities. Construction and operation of the project would generate VOC and NO_x emissions (which are precursors to O₃) and emissions of PM₁₀ and PM_{2.5}. However, because the project-generated construction and operational emissions of VOC, NO_x, PM₁₀, and PM_{2.5} would not exceed the applicable thresholds, the project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and the impact would be **less than significant**.

Exposure of Sensitive Receptors

Carbon Monoxide Hotspots

Even at its peak, the highest level of construction-related traffic for the project would not result in traffic volumes that would cause a CO hotspot; therefore, impacts related to CO near sensitive receptors during construction would be **less than significant**.

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

Toxic Air Contaminants

Construction of the project would result in exposure of nearby sensitive receptors (residences) to diesel particulate matter (DPM), which is a toxic air contaminant (TAC). The construction health risk assessment (HRA) determined that the maximum individual cancer risk would exceed the SDAPCD's threshold of significance resulting in a potentially significant impact. Mitigation Measure AQ-1 which requires the use of Tier 4 Final construction equipment, would be incorporated into the project to reduce DPM emissions. The mitigated construction health risk was determined to be less than the SDAPCD's thresholds of significance and the impact would be **less than significant**.

The project would locate a source of TACs in the form of DPM exhaust from vehicles through the provision of a new bridge near existing sensitive receptors (residences). The roadway HRA determined that the project would result in health risks less than the SDAPCD's thresholds of significance and the impact would be **less than significant**.

Other Emissions (Odors)

The analysis of other emissions is focused on the potential for an odor impact to occur. Potential odors produced during project construction would be attributable to architectural coatings, asphalt pavement application, and concentrations of unburned hydrocarbons from tailpipes of construction equipment, all of which would disperse rapidly from the project site and generally 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 not include land uses with sources that have the potential to generate substantial odors, and impacts associated with odors during operation would be **less than significant**.

Greenhouse Gas Emissions

GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations and that are evaluated herein 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 factors for CH₄ and N₂O.

Given that neither the CSU, nor the California Air Resources Board (CARB), nor SDAPCD have established a numerical threshold of significance for GHG emissions for the project region, the approach for evaluating the project's impacts related to GHG emissions relies on consistency with applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHGs. The consistency evaluation is the sole basis for determining the significance of the project's GHG-related impacts on the environment.

Nevertheless, and in accordance with Section 15064.4 of the CEQA Guidelines, GHG emissions resulting from implementation of the project were quantitatively estimated using CalEEMod.²

Potential to Generate Significant Greenhouse Gas Emissions, and Potential to Conflict with Applicable Greenhouse Gas Reduction Plans

Construction of the project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, haul trucks, on-road vendor trucks, and worker vehicles. Given that the project would have minor operational emissions (lighting, periodic re-striping), and would result in a decrease in regional VMT from existing conditions, operational emissions would be nominal and were not quantitatively estimated.

The evaluation of the project's potential to conflict with applicable plans, policies, or regulations adopted for the purposes of reducing GHGs emissions includes the following, as summarized individually below:

- CARB's 2022 Scoping Plan Update
- SANDAG's San Diego Forward: The 2021 Regional Plan (Regional Transportation Plan/Sustainable Communities Strategy)

² CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform to calculate construction and operational emissions from land use development projects.

- The City of San Diego’s Climate Action Plan
- CSU’s Sustainability Policy
- SDSU Climate Action Plan

The project would not conflict with any of the applicable plans listed above and would support many of the goals and strategies contained within the plans. While construction emissions would be temporary, the proposed project would support waste reduction goals through compliance with the City’s Construction and Demolition (C&D) Debris Diversion Ordinance, which requires diversion of 65% of construction debris. Operation of the proposed project would support long-term goals related to reductions in regional VMT, given that the project provides a new bicycle and pedestrian route in an area with limited north–south connectivity, which will substantially reduce trip lengths for these modes and greatly encourage their use. The project will also support decarbonization of the built environment through use of LED streetlights and auto-dimming technology consistent with City goals.

As such, and as discussed in further detail below, the project would not generate GHG emissions that would have a significant impact on the environment, nor would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions the GHGs. Impacts would be **less than significant**.

Mitigation Measures

Mitigation Measure AQ-1 Tier 4 Final Construction Equipment. Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to San Diego State University (University) that for off-road equipment with engines rated at 25 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Final. An exemption from these requirements may be granted by the University if the applicant documents that equipment with the required tier is not reasonably available and equivalent reductions in PM₁₀ exhaust emissions are achieved from other construction equipment. Before an exemption may be considered by the University, the applicant or its designee shall be required to demonstrate that three construction fleet owners/operators in the San Diego Region were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within the San Diego region. The University shall review the exemption request and provide a determination within 10 business days from receipt of the request.

Summary of Findings

The results of this report are summarized in Table 1, below, based on the significance criteria in Sections 2.3 (Air Quality), and 3.3 (GHG Emissions) and consistent with Appendix G of the CEQA Guidelines.

Table 1. Summary of Impact Determinations

Analysis	Report Section	Checklist Question	Significance Determinations	
			Unmitigated	Mitigated
Air Quality				
Would the project conflict with or obstruct implementation of the applicable air quality plan?	2.4.1	AQ-1	Less than Significant	Less than Significant
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	AQ-2	Less than Significant	Less than Significant
Would the project expose sensitive receptors to substantial pollutant concentrations?	2.4.3	AQ-3	Potentially Significant	Less than Significant
Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	2.4.4	AQ-4	Less than Significant	Less than Significant
GHG 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 an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	3.4.1	GHG-1 and GHG-2	Less than Significant	Less than Significant

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1 Introduction

1.1 Regional and Local Setting

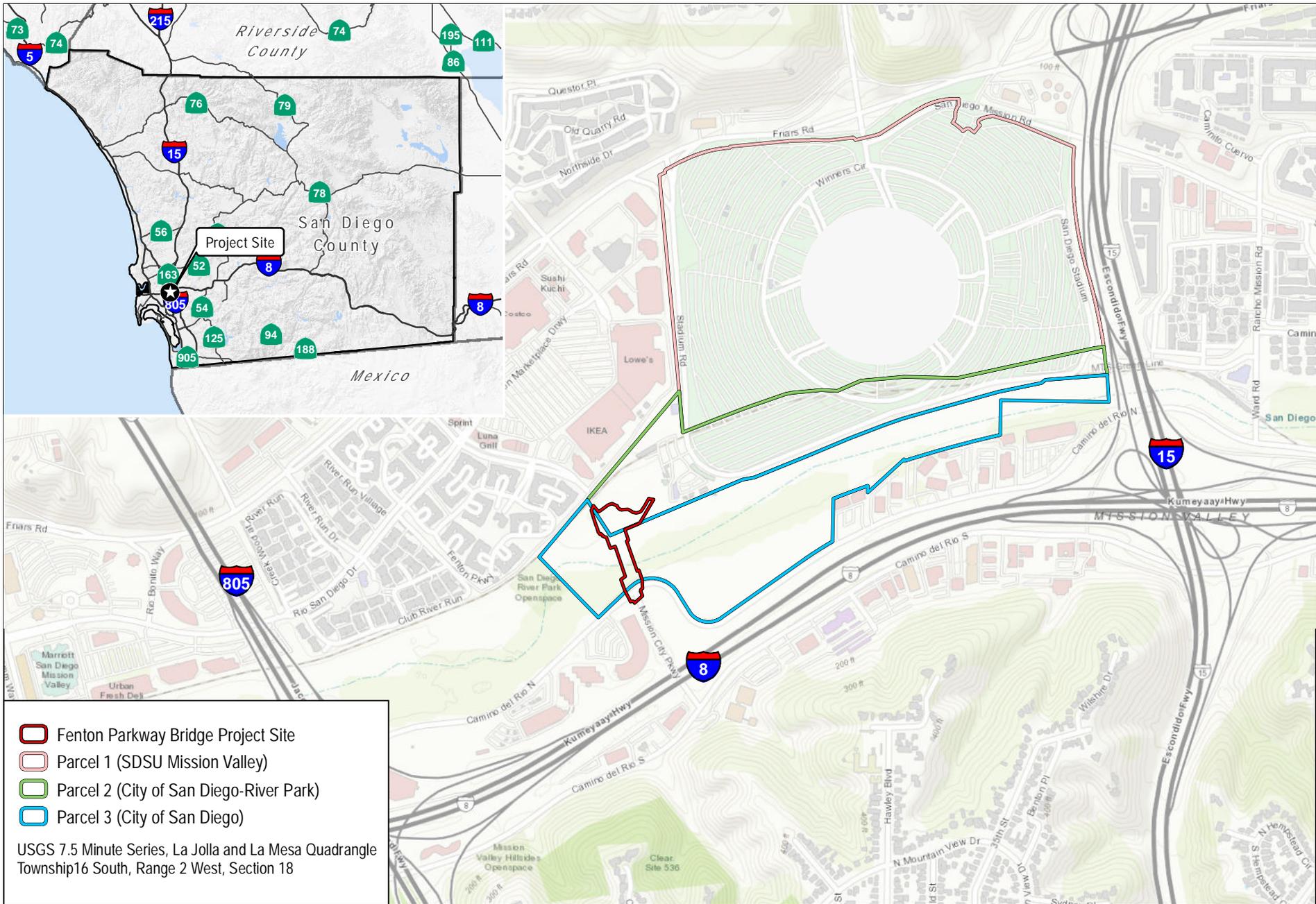
The location of the proposed bridge (project site) is in the northeast portion of the Mission Valley Community, in the central portion of the City of San Diego (City) metropolitan area (Figure 1, Project Vicinity and Location). The project site is situated south of Fenton Parkway and the Fenton Marketplace and north of Camino Del Rio North and would connect these two roadways. The San Diego River bisects the project site from east to west. Surrounding uses include commercial and residential uses to the north, San Diego State University (SDSU) Mission Valley (including Snapdragon Stadium) to the northeast, office and healthcare uses to the south, and open space, including the San Diego River. The bridge would be located within and adjacent to the City of San Diego's Multi-Habitat Planning Area and the City's Stadium Mitigation Site.

The project site is surrounded by four major freeways—Interstate (I-) 15, I-8, I-805, and State Route 163—accessed via Friars Road. The existing Metropolitan Transit System (MTS) Trolley Green Line and MTS Stadium Trolley Station are located on the north bank of the San Diego River, northwest of the project site, as shown in Figure 1. The proposed project is located in unsectioned land of the La Jolla and La Mesa U.S. Geological Survey 7.5-minute quadrangle.

1.2 Project Description

The proposed project would involve construction of a vehicular and bicycle/pedestrian bridge spanning the San Diego River from north to south (Figure 2, Project Site). The design and construction of the approach roadways and bridge would comply with applicable City, County of San Diego (County), and California Department of Transportation design standards, and American Association of State Highway and Transportation Officials guidelines. The proposed design for the bridge is a conventional post-tensioned, trapezoidal, concrete box girder structure. The bridge would be approximately 450 feet long, 58 feet wide, and 7 feet, 6 inches deep, and would consist of up to four spans. The spans would be supported on concrete seat-type abutments in the river embankments at each end and two to three piers within the river channel, each consisting of two to three approximately 20-foot-tall, 6-foot-diameter circular concrete columns. The proposed project also includes relocation and/or extension of an existing 96-inch reinforced concrete pipe storm drain on the north side of the proposed bridge and a 54-inch storm drain along the proposed southern terminus of the bridge at Camino Del Rio North, both of which discharge directly into the San Diego River. The intersection of Fenton Parkway and River Park Road and the intersection of Mission City Parkway and Camino Del Rio North would also require updates.

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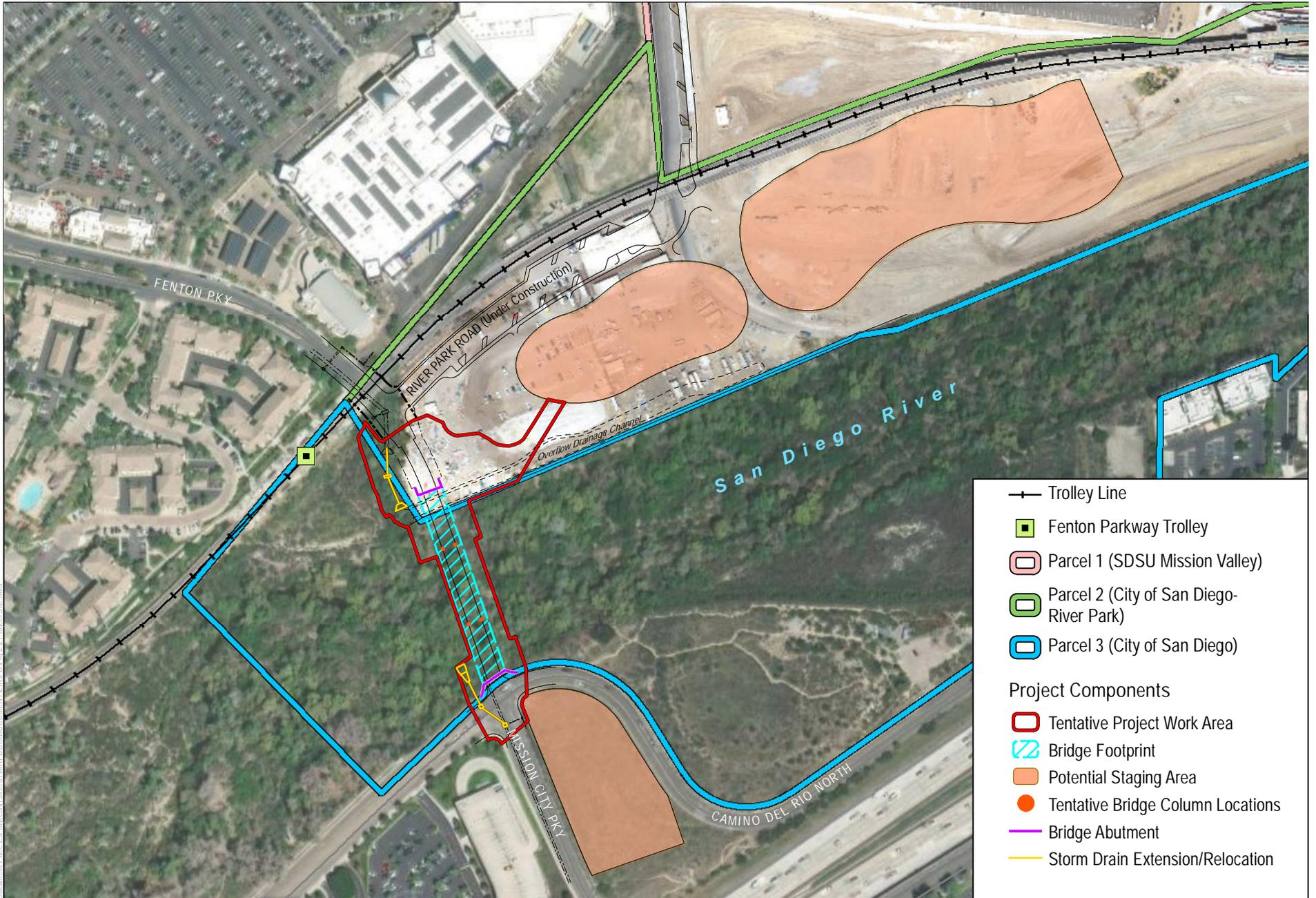


SOURCE: ESRI MAPPING SERVICE; BOWMAN/PDC 3/27/2023



FIGURE 1
Project Vicinity and Location
Fenton Parkway Bridge Project

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SOURCE: AERIAL-ESRI IMAGERY SERVICE; KLEINFELDER 2/8/2023
 DEVELOPMENT-BOWMAN/PDC 2/22/2023; PARCELS-BOWMAN/PDC 3/27/2023



FIGURE 2
 Project Site

Fenton Parkway Bridge Project

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2 Air Quality

2.1 Environmental Setting

2.1.1 Meteorological and Topographical Conditions

The primary factors that determine air quality are the locations of air pollutant sources and the amount of pollutants emitted. Meteorological and topographical conditions, however, are also important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of air pollutants. The project is located within the San Diego Air Basin (SDAB) and is subject to San Diego Air Pollution Control District (SDAPCD) guidelines and regulations. The SDAB is one of 15 air basins that geographically divide California. The unique climate and topographic features of the SDAB that impact air quality in the region are discussed in further detail below.

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 [°F]) 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 SDAB. 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.

San Diego Air Basin Climatology

The SDAB lies in the southwest corner of California and comprises the entire San Diego region, covering 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 ozone (O₃), which contributes

to the formation of smog. Smog is a combination of smoke and other particulates, O₃, 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 2022a).

Light daytime winds, predominately 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 the 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.

2.1.2 Pollutants and Effects

2.1.2.1 Criteria Air Pollutants

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The national and California 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), 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. In California, sulfates, vinyl chloride, hydrogen sulfide (H₂S), and visibility-reducing particles are also regulated as criteria air pollutants. These pollutants, as well as toxic air contaminants (TACs), are discussed in the following paragraphs.³

Ozone. 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 volatile organic compounds (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 (ground-level O₃).⁴ The O₃ that the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (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.

³ The descriptions of the criteria air pollutants and associated health effects are based on the U.S. Environmental Protection Agency's "Criteria Air Pollutants" (EPA 2020a), as well as the California Air Resources Board's "Glossary" (CARB 2022a) and "Fact Sheet: Air Pollution Sources, Effects and Control" (CARB 2009).

⁴ 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.

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 2020b).

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 2022b).

Nitrogen Dioxide. 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 2016).

A large body of health science literature indicates that exposure to NO₂ can induce adverse health effects. 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 2022c).

Carbon Monoxide. 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 nonreactive 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 2022d).

Sulfur Dioxide. 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 2022e).

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. 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, which 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, which 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 bloodstream, 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.

Several 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 2023a).

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 2023a).

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 (IQ) performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

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. H₂S is a colorless and flammable gas that has a characteristic odor of rotten eggs. Sources of H₂S include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants. Exposure to H₂S 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}.

Volatile Organic Compounds. 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. There are no separate ambient air quality standards for VOCs as a group.

2.1.2.2 Non-criteria Air Pollutants

Toxic Air Contaminants. 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 non-cancer 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 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.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of 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 non-carcinogenic

effects. Non-carcinogenic 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. Diesel particulate matter (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 1/70 the diameter of a human hair), and thus is a subset of PM_{2.5} (CARB 2022f). 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 2022f). CARB classified “particulate emissions from diesel-fueled engines” (i.e., DPM) (17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines, including 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, 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 2022f). Those most vulnerable to non-cancer health effects are children, whose lungs are still developing, and older people, 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. The fungus is very prevalent in the soils of California’s San Joaquin Valley, particularly in Kern County. The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline, sandy soils.

San Diego 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, the case rate is reported as less than or equal to 4.9 cases per 100,000 people during the period between 2011 and 2020 (County of San Diego 2021).

2.1.3 Sensitive Receptors

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 include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air-pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air-pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The City of San Diego adopts the South Coast Air Quality Management District (SCAQMD) sensitive receptor definition, which identifies examples as long-term health care facilities, rehabilitation centers, convalescent centers, retirement homes, residences—such as medical patients in homes, schools, playgrounds, childcare centers, and athletic facilities (City of San Diego 2022a).

The nearest sensitive receptors are existing multifamily residences located adjacent to the northwest of the project's boundaries. These existing sensitive receptors represent the nearest land uses with the potential to be impacted by construction and operation of the project.

2.2 Regulatory Setting

2.2.1 Federal Regulations

2.2.1.1 Criteria Air Pollutants

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The U.S. Environmental Protection Agency (EPA) is responsible for implementing most aspects of the Clean Air Act, including setting National Ambient Air Quality Standards (NAAQS) for major air pollutants; setting hazardous air pollutant (HAP) standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O₃ protection measures, and enforcement provisions. Under the Clean Air Act, NAAQS are established for the following criteria pollutants: 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 NAAQS (other than for O₃, NO₂, SO₂, PM₁₀, PM_{2.5}, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O₃, NO₂, SO₂, PM₁₀, and PM_{2.5} are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act 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 NAAQS within mandated time frames.

2.2.1.2 Hazardous Air Pollutants

The 1977 federal Clean Air Act amendments required the EPA to identify National Emission Standards for Hazardous Air Pollutants to protect 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 federal Clean Air Act Amendments, which expanded the control program for HAPs, 187 substances and chemical families were identified as HAPs.

2.2.2 State Regulations

2.2.2.1 Criteria Air Pollutants

The federal Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, 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, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. As stated previously, an ambient air quality standard defines the maximum amount of a pollutant averaged over a specified period of time that can be present in outdoor air without harm to the public’s health. For each pollutant, concentrations must be below the relevant CAAQS before a basin can attain the corresponding CAAQS. Air quality is considered “in attainment” if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O₃, CO, SO₂ (1-hour and 24-hour), NO₂, PM₁₀, and PM_{2.5} and visibility-reducing particles are values that are not to be exceeded.

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

Table 2. Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ^a	National Standards ^b	
		Concentration ^c	Primary ^{c,d}	Secondary ^{c,e}
	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	12.0 µg/m ³	15.0 µg/m ³
Lead ^{i,k}	30-day average	1.5 µg/m ³	—	—
	Calendar quarter	—	1.5 µg/m ³ (for certain areas) ^k	Same as primary standard
	Rolling 3-month average	—	0.15 µg/m ³	
H ₂ S	1 hour	0.03 ppm (42 µg/m ³)	—	—
Vinyl chloride ^l	24 hours	0.01 ppm (26 µg/m ³)	—	—
Sulfates	24 hours	25 µg/m ³	—	—
Visibility reducing particles	8 hours (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 = coarse particulate matter; PM_{2.5} = fine particulate matter; H₂S = hydrogen sulfide; PST = Pacific Standard Time.

- ^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 °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 O₃ 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 December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/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.

Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. The SDAPCD monitors local ambient air quality in the vicinity of the project site. Air quality monitoring stations usually measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The most recent background ambient air quality data from 2019 to 2021 are presented in Table 3.

The San Diego-Kearny Villa Road monitoring station, located at 6125A Kearny Villa Road, San Diego, California, is the air quality monitoring station nearest to the project site, located approximately 4.5 miles north of the project site. The data collected at this station is considered representative of the air quality experienced in the project vicinity. Air quality data for 8-hour O₃, NO₂, and PM_{2.5} from the Kearny Villa Road monitoring station are provided in Table 2-2. Because CO, PM₁₀, and SO₂ are not monitored at the Kearny Villa Road monitoring station, these measurements were taken from the El Cajon monitoring station located at 533 First Street, El Cajon, California 92019 (approximately 11 miles east of the project site). The number of days exceeding the ambient air quality standards are also shown in Table 3.

Table 3. Local Ambient Air Quality Data

Averaging Time	Unit	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
				2019	2020	2021	2019	2020	2021
Ozone (O₃)^a									
Maximum 1-hour concentration	ppm	California	0.12	0.083	0.123	0.095	0	2	1
Maximum 8-hour concentration	ppm	California	0.070	0.079	0.081	0.081	1	12	2
		National	0.070	0.071	0.072	0.070	1	10	1
Nitrogen Dioxide (NO₂)^a									
Maximum 1-hour concentration	ppm	California	0.18	0.047	0.048	0.047	0	0	0
		National	0.100	0.039	0.039	0.035	0	0	0
Annual concentration	ppm	California	0.030	0.009	0.008	0.008	—	—	—
		National	0.053	0.008	0.007	0.007	—	—	—

Table 3. Local Ambient Air Quality Data

Averaging Time	Unit	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
				2019		2021	2019		2021
Carbon Monoxide (CO)^b									
Maximum 1-hour concentration	ppm	California	20	—	—	—	0	0	0
		National	35	1.3	1.5	1.2	0	0	0
Maximum 8-hour concentration	ppm	California	9.0	—	—	—	0	0	0
		National	9	1.0	1.4	1.1	0	0	0
Sulfur Dioxide (SO₂)^b									
Maximum 1-hour concentration	ppm	National ^b	0.075	0.0008	0.0017	0.0016	0	0	0
Maximum 24-hour concentration	ppm	National	0.14	0.0003	0.0004	0.0003	0	0	0
Annual concentration	ppm	National	0.030	0.00007	0.00009	0.00006	—	—	—
Coarse Particulate Matter (PM₁₀)^b									
Maximum 24-hour concentration	µg/m ³	California	50	37.4	*	*	0	0	0
		National	150	38.7	55.0	40.0	0	0	0
Annual concentration	µg/m ³	California	20	*	*	*	—	—	—
Fine Particulate Matter (PM_{2.5})^a									
Maximum 24-hour concentration	µg/m ³	National	35	16.2	47.5	20.9	0	5.8	0
Annual concentration	µg/m ³	California	12	8.0	*	*	—	—	—
		National	12.0	7.1	8.9	7.9	0	0	0

Sources:

^a CARB 2023b

^b EPA 2023a.

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

San Diego Air Basin Attainment Designation

Pursuant to the 1990 Clean Air Act 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. San Diego Air Basin Attainment Designation

Pollutant	Designation/Classification	
	National Standards	
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
H ₂ S	(No federal standard)	Unclassified
Visibility-reducing particles	(No federal standard)	Unclassified
Vinyl chloride	(No federal standard)	No designation

Source: SDAPCD 2023a.

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

Notes: O₃ = ozone; CO = carbon monoxide; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; NO₂ = nitrogen dioxide; SO₂ = sulfur dioxide; H₂S = hydrogen sulfide.

- ^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.

As shown in Table 4, the SDAB is designated as a nonattainment area for federal O₃ standards, and state O₃, PM₁₀, and PM_{2.5} standards (SDAPCD 2023). The SDAB is designated as an attainment or unclassified area for all other criteria air pollutants.

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 700 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, 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). The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 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. CARB has adopted several Airborne Toxic Control Measures (ATCM) that reduce diesel emissions, including:

- Diesel Particulate Matter Control Measure for On-Road Heavy-Duty Diesel-Fueled Residential and Commercial Solid Waste Collection Vehicles (13 CCR 2020, 13 CCR 2021)
- ATCM for Diesel Particulate Matter from Portable Engines Rated 50 horsepower and greater (17 CCR 93116)
- ATCM for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities where TRUs operate (13 CCR 2477 and Article 8)
- ATCM to limit diesel-fueled commercial motor vehicle idling (13 CCR 2485)
- ATCM for In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.)
- ATCM for In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025)

In addition, the Air Toxics “Hot Spots” Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 and requires stationary sources to report the types and quantities of certain substances 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.

California Health and Safety Code Section 41700

Section 41700 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. Section 41700 also applies to sources of objectionable odors.

Air Quality and Land Use Handbook

CARB published the Air Quality and Land Use Handbook in 2005 to provide important air quality information about certain types of facilities (e.g., freeways, refineries, distribution centers, etc.) that should be considered when siting

sensitive land uses such as residences. CARB provides recommended siting distances from certain types of facilities when locating new sensitive land uses. The recommendations are advisory and should not be interpreted as defined “buffer zones. If a project is within the siting distance, CARB recommends further analysis. Where possible, CARB recommends a minimum separation between new sensitive land uses and existing sources.

2.2.3 Local Regulations

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 and is subject to the guidelines and regulations of SDAPCD.

In San Diego County, O₃ and particulate matter are the pollutants of main concern since exceedances of CAAQS for those pollutants are experienced here in most years. For this reason, the SDAB has been designated as a nonattainment area for the state PM₁₀, PM_{2.5}, and O₃ standards. The SDAB is also a federal O₃ attainment (maintenance) area for 1997 8-hour O₃ standard, a O₃ nonattainment area for the 2008 8-hour O₃ standard, and a CO maintenance area (western and central part of the SDAB only). The project area is in the CO maintenance area.

Federal Attainment Plans

In November 2020, the SDAPCD adopted the Air Quality Management Plan for attaining the federal 8-hour 75 parts per billion (ppb) and 70 ppb ozone standards (2020 Attainment Plan), which is the SDAB’s input to SIP and required to demonstrate how the SDACPD proposes to attain the federal ozone standards. The plan anticipates attainment of the 75 ppb and 70 ppb NAAQS standards by 2026 and 2032, respectively. The 2020 Attainment Plan includes planning requirements for attaining the O₃ NAAQS including on-road motor vehicle emissions budgets for transportation conformity, a vehicle miles traveled (VMT) offset demonstration, Reasonably Available Control Measures, Reasonable Further Progress, an Attainment Demonstration, and contingency measures in the event of a failure to meet a milestone or to attain by the predicted attainment date (SDAPCD 2020).

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 Regional Air Quality Strategy (RAQS) for the SDAB was initially adopted in 1991 and is updated every 3 years, most recently in 2022 (SDAPCD 2023b). 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 revised 2022 RAQS for the County. 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. 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 2015).

2.2.3.2 San Diego Association of Governments

SANDAG serves as the metropolitan planning organization (MPO) and council of governments for the San Diego region. SANDAG brings together decision-makers to develop solutions to regional issues including improving equity, transportation, air quality, clean energy, economic development, goods movement, public health, public safety, and housing. To address these regional issues, SANDAG is responsible for developing the Regional Transportation Plan (RTP) and incorporated Sustainable Communities Strategy (SCS). The RTP/SCS is updated every 4 years in collaboration with the 18 cities and unincorporated County of San Diego, in addition to regional, state, and federal partners. The most recent RTP/SCS, San Diego Forward: The 2021 Regional Plan was adopted in 2021 and includes

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 (SANDAG 2021).

2.3 Significance Criteria and Methodology

2.3.1 Thresholds of Significance

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

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.⁵

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.

As part of its air quality permitting process, SDAPCD has established thresholds in Rule 20.2 requiring the preparation of air quality impact assessments for permitted stationary sources. 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.⁶

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. Screening-Level Thresholds for Air Quality Impact Analysis

Pollutant	Total Emissions (pounds per Day)
Volatile Organic Compounds (VOC)	137 ^a
Oxides of Nitrogen (NO _x)	250
Carbon Monoxide (CO)	550
Oxides of Sulfur (SO _x)	250
Respirable Particulate Matter (PM ₁₀)	100

⁵ City of San Diego CEQA guidance for air quality includes thresholds in addition to those contained in Appendix G of the CEQA Guidelines. The relevant additional threshold applicable to the project requires evaluation of the project’s potential to result in emissions of particulate matter (dust) that exceed 100 pounds per day. Given that the SDAPCD Air Quality Impact Analysis trigger level for total PM₁₀ is also 100 pounds per day and inclusive of dust, this additional significance threshold is captured within the approach used herein.

⁶ The SDAPCD Rule 20.2 and 20.3 trigger levels are specified for new or modified stationary sources, and do not generally apply to mobile sources or general land development projects. However, both the City and County of San Diego have recommended the trigger levels for evaluation of increased emissions discharged to the SDAB from proposed land development projects.

Table 5. Screening-Level Thresholds for Air Quality Impact Analysis

Pollutant	Total Emissions (pounds per Day)
Fine Particulate Matter (PM _{2.5})	67

Sources: City of San Diego 2022c; SDAPCD 2021.

Note:

^a VOC threshold based on the significance thresholds recommended by the Monterey Bay Unified Air Pollution Control District for the North Central Coast Air Basin, which has similar federal and state attainment status as the SDAB for O₃.

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. For nonattainment 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 involves 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) 2022 Version 2022.1 was used to estimate emissions from construction 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, including bridge construction and other linear projects. 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 applicant or default model assumptions if project specifics were unavailable. Given that the project will result in a net reduction in vehicle miles traveled in the region (VMT), there will only be a nominal increase in emissions with project operation (e.g., routine maintenance). Accordingly, operational criteria air pollutant emissions were not estimated and were assessed qualitatively.

2.3.2.1 Construction Emissions

As described in Section 1.2, Project Description, the project would involve construction of a vehicular and bicycle/pedestrian bridge spanning the San Diego River from north to south, connecting Fenton Parkway and Camino Del Rio North. In addition to bridge infrastructure, construction would also include roadway expansion and other offsite improvements.

For the purposes of this analysis, two potential construction methods were evaluated Pre-Cast, and Cast-in-Place. Conceptual schedules were developed based on available information provided by the project engineers, typical construction practices, and CalEEMod default assumptions. Construction phasing is intended to represent a schedule of anticipated activities for use in estimating potential project-generated construction emissions.

Pre-Cast Bridge Construction

The project was assumed to require the following construction phases, with likely overlaps provided by project engineers (durations are approximate):

- Environmentally Sensitive Areas (ESA) Fencing, Clearing, Grubbing, and Mobilization: 3 weeks
- Cast-In-Drilled-Hole (CIDH) Piles (Pier 2,3,4): 4 weeks
- Ground Improvements (Abut 1): 3 weeks
- Column Form, Rebar, Pour (Pier 2,3,4): 6 weeks
- Embankment Grading (Abut 1): 1 week
- Excavation (Abut 1): 1 week
- Ground Improvements (Abut 5): 3 weeks
- Cap Falsework (Pier 2,3,4): 6 weeks
- Cap Form, Rebar, Pour (Pier 2,3,4): 7 weeks
- Embankment Grading (Abut 5): 1 week
- Excavation (Abut 5): 1 week
- Form, Rebar, Pour (Abut 1 & 5, Stem, Walls, Diaphragms & Deck): 22 weeks
- Erect Precast Girders: 1 week
- Cure Deck, Strip Overhangs: 2 weeks
- Riprap (Abut 1 & 5): 4 weeks
- Sidewalk Barrier Installation and Deck Grind: 3 weeks

Pre-Cast Off-site Improvements

- Grubbing and Land Clearing: 1 week
- Grading and Excavation: 2.5 weeks
- Drainage, Utilities, and Sub-Grade: 2 weeks
- Paving: 1 week
- Architectural Coating: 1 week

Table 6 provides the construction equipment mix and vehicle trips assumed for estimating project-generated Pre-Cast construction emissions associated with each phase.

Table 6. Pre-Cast Construction Method Scenario Assumptions

Phase	One Way Trips per Day			Equipment		
	Worker		Haul	Type		Hrs/day
Bridge Construction						
General Construction	24	0	0	Aerial lift	1	8
				Air compressors	1	8
				Cranes	1	8
				Forklifts	1	8
				Generator sets	4	8
				Welders	1	8
ESA Fencing; Clear and Grub; Mobilization	16	4	8	Excavators	1	8
				Graders	1	8
				Rubber-tired loaders	1	8
				Rubber-tired dozers	1	8
				Scrapers	1	8
				Chipper/Other Construction Equipment	1	8
CIDH Piles (Pier 2, 3, 4)	20	338	0	Bore/drill rig	1	8
				Cranes	1	8
				Rubber-tired loaders	1	8
				Generator sets	3	8
Ground Improvements Abut 1	10	6	26	Cranes	1	10
				Drill rig	1	10
				Generator/powerpack	1	10
				Air compressor	1	10
				Telehandler	1	10
				Rubber-tired loader	1	10
Column Form, Rebar, Pour (Pier 2, 3, 4)	24	116	0	Cranes	1	8
Embankment Grading (Abut 1)	12	4	4	Excavators	1	8
				Rubber-tired dozers	1	8
				Rubber-tired loaders	1	8
				Rollers	1	8
Excavation Abut 1	8	130	6	Excavators	1	8
				Rubber-tired loaders	1	8
Ground Improvements Abut 5	10	6	26	Cranes	1	10
				Drill rig	1	10
				Generator/powerpack	1	10
				Air compressor	1	10
				Telehandler/Forklift	1	10
				Rubber-tired loader	1	10
Cap Falsework (Pier 2, 3, 4)	24	0	0	Pile driver	1	8
				Cranes	1	8

Table 6. Pre-Cast Construction Method Scenario Assumptions

Phase	One Way Trips per Day			Equipment		
	Worker		Haul	Type		Hrs/day
Cap Form, Rebar, Pour (Pier 2, 3, 4)	24	116	0	Cranes	1	8
Embankment Grading (Abut 5)	12	4	0	Excavators	1	8
				Rubber-tired dozers	1	8
				Rubber-tired loaders	1	8
				Roller compactor	1	8
Excavation Abut 5	8	130	6	Excavators	1	8
				Rubber-tired loaders	1	8
Form, Rebar, Pour (Abut 1 and 5 Footing, Stem, Walls, and diaphragms and deck)	24	116	0	Cranes	1	8
Erect Precast Girders	24	0	0	Pile driver	1	8
				Cranes	1	8
Cure Deck, Strip Overhangs	4	56	0	Cranes	1	8
Riprap (Abut 1 and 5)	8	0	4	Excavators	1	8
				Rubber-tired loaders	1	8
Sidewalk Barrier Install, Deck Grind	4	56	0	Cranes	1	8
Offsite Improvements						
Grubbing and Land Clearing	6	2	6	Crawler tractors	1	8
				Excavators	1	8
Grading and Excavation	30	1	156	Excavators	3	8
				Graders	1	8
				Crawler tractors	1	8
				Rollers	2	8
				Rubber-tired loaders	1	8
				Scrapers	2	8
				Tractors/loaders/backhoes	2	8
Drainage, Utilities, and Sub-Grade	26	2	12	Tractors/loaders/backhoes	2	8
				Scrapers	2	8
				Rough terrain forklifts	1	8
				Plate compactors	1	8
				Pumps	1	8
				Air compressors	1	8
				Graders	1	8
Paving	18	2	-	Rollers	3	8
				Pavers	1	8
				Paving equipment	1	8

Table 6. Pre-Cast Construction Method Scenario Assumptions

Phase	One Way Trips per Day			Equipment		
	Worker		Haul	Type		Hrs/day
				Tractors/loaders/backhoes	2	8
Architectural Coating	6	2	—	Air compressors	1	6

Source: Kleinfelder, personal communication, Keith Gazaway, June 2023.

Cast-in-Place Bridge Construction

The project was assumed to require the following construction phases, with likely overlaps provided by project engineers (durations are approximate):

- ESA Fencing, Clearing, Grubbing, and Mobilization: 3 weeks
- CIDH Piles (Pier 2,3): 4 weeks
- Ground Improvements (Abut 1): 3 weeks
- Column Form, Rebar, Pour (Pier 2,3): 4 weeks
- Embankment Grading (Abut 1): 1 week
- Excavation (Abut 1): 1 week
- Ground Improvements (Abut 4): 3 weeks
- Embankment Grading (Abut 4): 1 week
- Excavation (Abut 4): 1 week
- CIDH Piles (Abut 1, 4): 9 weeks
- Form, Rebar, Pour (Abut 1 & 4, Footing, Stem, Walls): 13 weeks
- Erect Falsework: 8 weeks
- Form, Rebar, Pour (Soffit, Stems, Deck): 23 weeks
- Cure Deck, Stress Bridge, Strip Falsework: 7 weeks
- Riprap (Abut 1 & 5): 4 weeks
- Sidewalk Barrier Installation and Deck Grind: 3 weeks

Pre-Cast Off-site Improvements

- Grubbing and Land Clearing: 1 week
- Grading and Excavation: 2.5 weeks
- Drainage, Utilities, and Sub-Grade: 2 weeks
- Paving: 1 week
- Architectural Coating: 1 week

Table 7 provides the construction equipment mix and vehicle trips assumed for estimating project-generated Cast-in-Place construction emissions associated with each phase.

Table 7. Cast-in-Place Construction Method Scenario Assumptions

Phase	One Way Trips per Day			Equipment		
	Worker		Haul	Type		Hrs/day
Bridge Construction						
General Construction	24	0	0	Aerial lift	1	8
				Air compressors	1	8
				Cranes	1	8
				Forklifts	1	8
				Generator sets	4	8
				Welders	1	8
ESA Fencing; Clear and Grub; Mobilization	16	4	8	Excavators	1	8
				Graders	1	8
				Rubber-tired loaders	1	8
				Rubber-tired dozer	1	8
				Scrapers	1	8
				Chipper/Other Construction Equipment	1	8
CIDH Piles (Pier 2, 3)	20	338	0	Bore/drill rig	1	8
				Cranes	1	8
				Rubber-tired loaders	1	8
				Generator sets	3	8
Ground Improvements Abut 1	10	6	26	Cranes	1	10
				Drill rig	1	10
				Generator/powerpack	1	10
				Air compressor	1	10
				Telehandler	1	10
				Rubber-tired loaders	1	10
Column Form, Rebar, Pour (Pier 2, 3)	24	116	0	Cranes	1	8
Embankment Grading (Abut 1)	12	4	4	Excavators	1	8
				Rubber-tired dozers	1	8
				Rubber-tired loaders	1	8
				Rollers	1	8
Excavation Abut 1	8	130	6	Excavators	1	8
				Rubber-tired loaders	1	8
Ground Improvements Abut 4	10	6	26	Cranes	1	10
				Drill rig	1	10
				Generator/powerpack	1	10
				Air compressor	1	10
				Telehandler/Forklift	1	10
				Rubber-tired loaders	1	10
Embankment Grading (Abut 4)	12	4	0	Excavators	1	8
				Bulldozer	1	8
				Rubber-tired loaders	1	8

Table 7. Cast-in-Place Construction Method Scenario Assumptions

Phase	One Way Trips per Day			Equipment		
	Worker		Haul	Type		Hrs/day
Excavation Abut 4	8	130	6	Roller compactor	1	8
				Excavators	1	8
				Rubber-tired loaders	1	8
CIDH Piles (Abut 1, 4 Footing, Stem, Walls)	20	338	0	Bore/Drill Rig	1	8
				Cranes	1	8
				Rubber-tired loaders	1	8
				Generator sets	3	8
Form, Rebar, Pour (Abut 1, 4 Footing, Stem, Walls)	44	116 ¹	0	Cranes	1	8
Erect Falsework	40	0	0	Cranes	1	8
Form, Rebar, Pour (Soffit, Stems, Deck)	54	116 ¹	0	Cranes	1	8
Cure Deck, Stress Bridge, Strip Falsework	40	56	–	Cranes	1	8
Riprap (Abut 1 and 4)	8	–	4	Excavators	1	8
				Rubber-tired loaders	1	8
Sidewalk Barrier Install, Deck Grind	4	56	–	Cranes	1	8
Offsite Improvements						
Grubbing and Land Clearing	6	2	6	Crawler tractors	1	8
				Excavators	1	8
Grading and Excavation	30	1	156	Excavators	3	8
				Graders	1	8
				Crawler tractors	1	8
				Rollers	2	8
				Rubber-tired loaders	1	8
				Scrapers	2	8
				Tractors/loaders/backhoes	2	8
Drainage, Utilities, and Sub-Grade	26	2	12	Tractors/loaders/backhoes	2	8
				Scrapers	2	8
				Rough terrain forklifts	1	8
				Plate compactors	1	8
				Pumps	1	8
				Air compressors	1	8
				Graders	1	8
Generator sets	1	8				
Paving	18	2	–	Rollers	3	8
				Pavers	1	8
				Paving equipment	1	8

Table 7. Cast-in-Place Construction Method Scenario Assumptions

Phase	One Way Trips per Day			Equipment		
	Worker		Haul	Type		Hrs/day
				Tractors/loaders/backhoes	2	8
Architectural Coating	6	2	—	Air compressors	1	6

Source: Kleinfelder, 2024, personal communication Keith Gazaway

Notes:

- 1 An additional 200 concrete trucks (400 truck trips) were added to the modeling for the form, rebar, and pour, which would occur over the period of 1 day.

Material Import/Export

Proposed project construction would include approximately 17,500 cubic yards of import and approximately 4,450 cubic yards of material export during the ground improvement, excavation, grubbing/land clearing, and utilities phases. Detailed construction equipment modeling assumptions are provided in Appendix A, Air Quality and Greenhouse Gas Emissions CalEEMod Output Files.

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.

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 roadway striping and signage, 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.

2.3.2.2 Health Risk Assessments

Construction Health Risk Assessment

A Health Risk Assessment (HRA) was performed to evaluate potential health risk associated with construction of the project. Construction of the project has the potential to expose nearby sensitive receptors (existing residences) to TAC emissions in the form of DPM from offroad equipment and onroad trucks. The following discussion summarizes the dispersion modeling and supporting modeling is provided in Appendix B.

For risk assessment purposes, PM₁₀ in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, the CalEEMod scenario for the project was adjusted to reduce diesel truck one-way trip distances to 1,000 feet (0.19 miles) to estimate emissions from truck pass-by at proximate receptors. The air dispersion modeling methodology was based on SDAPCD’s accepted modeling practices (SDAPCD 2022). Air

dispersion modeling was performed using the EPA’s American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 23132 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 12.0.0. The HRA followed the Office of Environmental Health Hazard Assessment (OEHHA) 2015 guidelines (OEHHA 2015) and SDAPCD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SDAPCD and EPA guidance and identified as representative of the Project site and Project activities. Principal parameters of this modeling are presented in Table 8.

Table 8. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Meteorological Data	The SDAPCD was consulted to obtain the most representative meteorological data set for the project site. The SDAPCD provided meteorological data for the Kearney Villa Road meteorological station, which is located at 6125A Kearney Villa Road, San Diego approximately 4.5 miles north of the project site. The latest three-year data set from the Chula Vista station was for the 2019-2021 years.
Urban versus Rural Option	The rural dispersion option is the modeling default for San Diego County; however, urban dispersion is allowed if the land area meets the criteria as defined in Section 4.4.1 in the OEHHA 2015 Guidance Manual (SDAPCD 2022a). Urban dispersion option was selected due to the developed nature of the surrounding area.
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. The default elevated option in AERMOD was used to determine ground-level concentrations.
Source Release Characterizations	Air dispersion modeling of DPM emissions was conducted assuming the off-road equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A). The construction equipment and on-site truck travel DPM emissions were modeled as a line of adjacent volume sources across the project site to represent project construction with a release height of 5 meters, plume height of 10 meters, and plume width of 10 meters (SCAQMD 2008).
Receptors	Two uniform Cartesian receptor grids with 20-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 and at school sites in the surrounding area. Receptors were placed at both ground-level and at elevated heights (11 meters) to simulate multi-level buildings.

Source: See Appendix B.

Notes: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SDAPCD = San Diego Air Pollution Control District; SCAQMD = South Coast Air Quality Management District

Regarding receptors, the construction scenario used two uniform Cartesian receptor grids with 20-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 and at school sites in the surrounding area.

The health risk calculations were performed using the Hotspots Analysis and Reporting Program Version 2 (HARP2) Air Dispersion and Risk Tool (ADMRT, Version 22118). AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the non-cancer chronic health indices and the results were compared to the SDAPCD thresholds to assess project significance. There is no reference exposure level for acute health impacts from DPM, and, thus, acute risk was not evaluated.

Roadway Health Risk Assessment

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). The proposed project does not involve the siting of sensitive receptors; however, it would locate a potential source of TAC emissions in the form of DPM from vehicle travel closer to existing receptors by constructing the bridge. For the roadway health risk, the operation year 2027 was assumed consistent with completion of project construction.

As stated previously, for risk assessment purposes, PM₁₀ in diesel exhaust is considered DPM, originating mainly from diesel-fueled vehicle travel. 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. CalEPA is a proponent of using the surrogate approach to quantifying cancer risks associated with diesel exhaust over a component-based approach, which involves estimating risks for each of the individual components of a mixture. CalEPA 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). Gasoline vehicles also result in TACs; however, DPM is the primary driver of risk from highways and will be the only TAC assessed.

Average Daily Trip (ADT) data from the Fenton Parkway Bridge Transportation Study (Fehr & Peers 2023) was used to provide the total daily vehicle trips traveling along the bridge. EMFAC2021 vehicle data for San Diego County for year 2027 was used to estimate the percentage breakdown of trucks versus passenger vehicles. Using the County data is a conservative estimate as the County data includes the entirety of the County, which would include more truck travel, whereas the project site would be a local road and likely have less truck travel. Based on the ADT of 12,600 vehicles per day, approximately 646 of those vehicles would be trucks and 11,954 vehicles would be passenger vehicles. EMFAC2021 data was also used to estimate the quantity of vehicles that would be diesel-fueled. Based on the data, approximately 65% of the trucks would be diesel-fueled, whereas less than 1% of passenger vehicles would be diesel-fueled. This equates to 421 trucks and 74 passenger vehicles. The remaining vehicles would be a combination of gasoline, electric, natural gas, and plug-in hybrids. PM₁₀ emission factors for diesel-fueled passenger vehicle and trucks were estimated using EMFAC2021 San Diego County data for year 2027.

Conservatively, the 2027 emission factor data set was used for the entire duration of the analysis (i.e., 30 years). Use of the 2027 emission factor would overstate potential impacts since this approach does not include reductions in emissions due to fleet turnover or cleaner technology with lower emissions. The travel DPM emissions were calculated by applying the exhaust PM₁₀ emission factor from EMFAC and the total trip number over the length of the distance traveled over the bridge.

The dispersion modeling was performed using AERMOD (Version 23132). The vehicle traffic was modeled as a line of adjacent volume sources running along the new Fenton Parkway Bridge. Receptors were placed into two uniform

Cartesian receptor grids with 20-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 and at school sites in the surrounding area.

As previously described, 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. Some TACs increase noncancer health risk due to long-term (chronic) exposures. A hazard index less than one (1.0) means that adverse health effects are not expected. Within this analysis, noncarcinogenic exposures of less than 1.0 are considered less than significant. The 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 values are established and regulated and are therefore not addressed in this assessment.

Dudek evaluated the project’s potential cancer and noncancer health impacts using exposure periods appropriate to evaluate long-term emission increases (third trimester of pregnancy to 30 years). Emissions dispersion of DPM was modeled using AERMOD, then cancer risk and noncancer health impacts subsequently using the CARB HARP2 (ADMRT, Version 22118). The health risk results were then compared to SDAPCD thresholds to assess project significance. Principal parameters of this modeling are presented in Table 8.

Table 9. Roadway Health Risk Assessment American Meteorological Society/ U.S. Environmental Protection Agency Regulatory Model Operational Principal Parameters

Parameter	Details
Meteorological Data	The SDAPCD was consulted to obtain the most representative meteorological data set for the project site. The SDAPCD provided meteorological data for the Kearney Villa Road meteorological station, which is located at 6125A Kearney Villa Road, San Diego approximately 4.5 miles north of the project site. The latest three-year data set from the Chula Vista station was for the 2019-2021 years.
Urban versus Rural Option	The rural dispersion option is the modeling default for San Diego County; however, urban dispersion is allowed if the land area meets the criteria as defined in Section 4.4.1 in the OEHHA 2015 Guidance Manual (SDAPCD 2022a). Urban dispersion option was selected due to the developed nature of the surrounding area.
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. In addition, both the default elevated option in AERMOD and the non-default option of flat were run for the terrain to estimate maximum ground-level concentrations.
Source Release Characterizations	Vehicle travel was modeled as line adjacent volume sources. Trucks and non-trucks were modeled as separate line volume sources to account for different plume and release characteristics resulting in a total of eight separate line volume sources. Plume height was assumed to be 6.8 meters for trucks and 2.6 meters for non-trucks (EPA 2021b). A release height was estimated for each source assuming 1/2 of the plume height, which equals 3.4 meters for trucks and 1.3 meters for non-trucks (EPA 2021). The plume width was estimated for each segment based on the width of the traveling lanes plus 6 meters (or approximately 10 feet on each side) to account for vehicle wake (EPA 2021).

Table 9. Roadway Health Risk Assessment American Meteorological Society/ U.S. Environmental Protection Agency Regulatory Model Operational Principal Parameters

Parameter	Details
Receptors	Two uniform Cartesian receptor grids with 20-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 and at school sites in the surrounding area. Receptors were placed at both ground-level and at elevated heights (11 meters) to simulate multi-level buildings.

Source: See Appendix B.

Note: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SDAPCD = San Diego Air Pollution Control District

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations. The HRA assumes exposure would start in the third trimester of pregnancy through 30 years for all residential sensitive receptor locations. The exposure pathway for DPM is inhalation only.

2.4 Impact Analysis

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

Pre-Cast and Cast-in-Place Construction Methods

As stated in Section 2.2.3, Local Regulations, 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.⁷ The federal O₃ attainment plan, which is part of the SIP, was adopted in 2020. The SIP includes a demonstration that current strategies and tactics will attain 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.

As mentioned above, 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 development of their general plans. As such, projects that involve development that is consistent with the growth anticipated by local plans would be

⁷ For the purpose of this discussion, the relevant federal air quality plan is the O₃ attainment plan (SDAPCD 2020). The RAQS is the applicable plan for purposes of state air quality planning. Both plans reflect growth projections in the SDAB.

consistent with the SIP and RAQS. However, if a project involves development that is greater than that anticipated in the local plan and/or SANDAG's growth projections, that project might be in conflict with the SIP and RAQS, and may contribute to a potentially significant cumulative impact on air quality.

The proposed project would span the San Diego River, connecting Fenton Parkway with Camino Del Rio North in the Mission Valley Community of the City of San Diego. The proposed project is referenced in the Mission Valley Community Plan (adopted by the City in 2019) and is a long-sought infrastructure enhancement in the Mission Valley Community that would connect residents and businesses south of the San Diego River to land uses north of the river off Friars Road, including the SDSU Mission Valley development, which was approved by the Board of Trustees of the California State University (CSU) in 2020 (City of San Diego 2019). The project would involve construction of a vehicular and pedestrian bridge spanning the San Diego River from north to south.

The project does not include a change in zoning or land use designation, and no housing is proposed. Construction of the project would require workforce travel from the surrounding region but would be temporary and would cease once construction is complete. The proposed project would not directly or indirectly promote population growth or increase VMT in the region. Implementation of the project would not result in development or growth beyond that which was contemplated by SANDAG for their regional growth projections used in the SDAPCD air quality management plans. Therefore, the proposed project would not conflict with or obstruct implementation of the applicable air quality plan, and impacts would be **less than significant**.

Level of Significance Before Mitigation

Impacts would be less than significant.

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

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?

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.

In considering cumulative impacts from the proposed project, the analysis must specifically evaluate a project's contribution to the cumulative increase in pollutants for which the SDAB is designated as nonattainment for the CAAQS and NAAQS. As discussed previously, the SDAB has been designated as a national nonattainment area for O₃, and a California nonattainment area for O₃, PM₁₀, and PM_{2.5}. Construction and operation of the project would result in emissions of criteria air pollutants, which may result in a cumulatively considerable increase in emissions

of criteria air pollutants for which the SDAB is designated as nonattainment under the NAAQS or CAAQS. The following discussion evaluates potential short-term construction and long-term operational impacts that would result from implementation of the proposed project.

Construction Emissions

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., Approach and Methodology, 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 (SDAPCD 2009).

Pre-Cast Construction Method Emissions

Table 10 shows the estimated maximum unmitigated daily construction emissions associated with the conceptual construction phases of the project using the Pre-Cast method of construction. Complete details of the emissions calculations are provided in Appendix A, Air Quality and Greenhouse Gas Emissions CalEEMod Output Files.

Table 10. Pre-Cast Construction Method Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Construction Period	Pounds Per Day					
Summer 2025*	3.24	33.21	30.65	0.09	3.34	1.57
Winter 2025*	10.67	124.46	101.95	0.27	20.13	8.81
Maximum Daily Emissions**	10.67	124.46	101.95	0.27	20.13	8.81
<i>SDAPCD Threshold</i>	75	250	550	250	100	55
Threshold Exceeded?	No	No	No	No	No	No

Source: Appendix A.

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.

* CalEEMod modeling presented in Appendix A for the Pre-Cast Scenario was prepared using an earlier construction date of 2024, however, work would occur in 2025 or later. The use of an earlier construction year provides a “worst-case scenario” estimate of emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

** Emissions shown are unmitigated, however, the project would include the use of Tier 4 equipment pursuant to Mitigation Measure AQ-1, which is required to address impacts to sensitive receptors, which would further reduce emissions.

As shown in Table 10, maximum daily construction emissions from the Pre-Cast construction method would not exceed the SDAPCD significance thresholds for any criteria air pollutant during project construction, and short-term construction air quality impacts would be **less than significant**.

Cast-in-Place Construction Method Emissions

Table 11 shows the estimated maximum unmitigated daily construction emissions associated with the conceptual construction phases of the project using the Cast-in-Place construction method. Complete details of the emissions calculations are provided in Appendix A, Air Quality and Greenhouse Gas Emissions CalEEMod Output Files.

Table 11. Cast-in-Place Construction Method Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Construction Period	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds Per Day					
Summer 2025	3.67	43.33	36.84	0.16	6.47	2.43
Winter 2025	6.87	74.01	69.56	0.23	14.11	6.88
Winter 2026	5.91	63.80	60.91	0.20	9.92	3.44
Maximum Daily Emissions*	6.87	74.01	69.56	0.23	14.11	6.88
<i>SDAPCD Threshold</i>	75	250	550	250	100	55
Threshold Exceeded?	No	No	No	No	No	No

Source: Appendix A.

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.

* Emissions shown are unmitigated, however, the project would include the use of Tier 4 equipment pursuant to Mitigation Measure AQ-1, which is required to address impacts to sensitive receptors, which would further reduce emissions.

As shown in Table 11, maximum daily construction emissions would not exceed the SDAPCD significance thresholds for any criteria air pollutant during project construction, and short-term construction air quality impacts would be **less than significant**.

Operational Emissions

Pre-Cast and Cast-in-Place Construction Methods

Once project construction is complete, the project would provide a two-lane roadway extension of Fenton Parkway south with a bridge over the San Diego River Park Road to Camino Del Rio North. The roadway extension would include separated bike lanes and sidewalks, providing a new high-water crossing over the San Diego River. Similar to existing conditions, there could be occasional routine maintenance (e.g., re-striping, re-paving, etc.) during operation of the roadway expansion; however, these activities would be minor and result in only a nominal increase of emissions. Additionally, per the transportation study prepared for the proposed project, the project is not expected to increase area VMT because the project provides a more direct route to and from destinations (Fehr & Peers 2023). Because the project would not result in a net increase in transportation related emissions in the region, which is the source of operational air pollutant emissions for the project, long-term operational activities, there would be no significant air quality impacts associated with operational air pollutant emissions.

As discussed above, the SDAB has been designated as a national nonattainment area for O₃, and a California nonattainment area for O₃, PM₁₀, and PM_{2.5}. The nonattainment status is the result of cumulative emissions from various sources of air pollutants and their precursors within the SDAB, including motor vehicles, off-road equipment,

and commercial and industrial facilities. Construction and operation of the project would generate VOC and NO_x emissions (which are precursors to O₃) and emissions of PM₁₀ and PM_{2.5}. However, as indicated, project-generated construction emissions and operational emissions would not exceed the emission-based significance thresholds for VOC, NO_x, PM₁₀, or PM_{2.5}.

Because the project-generated construction and operational emissions of VOC, NO_x, PM₁₀, and PM_{2.5} that would not exceed the SDAPCD thresholds, the project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants. Therefore, the Project's cumulative air quality impact would be **less than significant**.

Health Effects of Criteria Pollutants

Pre-Cast and Cast-in-Place Construction Methods

Project construction and operation would not exceed regional significance thresholds for VOC, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}. VOCs and NO_x are precursors to O₃, for which the SDAB is designated as nonattainment with respect to the NAAQS and CAAQS. The health effects associated with O₃ are generally associated with reduced lung function. The contribution of VOC 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 CAAQS/NAAQS 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 quantitative methods to assess this impact. Operation of the project would not exceed the regional significance threshold for NO_x; therefore, implementation of the project would contribute minimally to regional O₃ concentrations and the associated health effects.

Operation of the project would not contribute to exceedances of the NAAQS and CAAQS for NO₂. Health effects that result from NO₂ and NO_x include respiratory irritation, which could be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, project construction would be relatively short term, and off-road construction equipment would be operating at various portions of the site and would not be concentrated in one portion of the site at any one time. In addition, existing NO₂ concentrations in the area are well below the NAAQS and CAAQS standards. Because project generated NO_x emissions would not exceed the regional significance threshold, the project would not result in potential health effects associated with NO₂ and NO_x.

CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots is discussed in Section 2.4.3 and are determined to be a less-than-significant impact. Furthermore, the existing CO concentrations in the area are well below the NAAQS and CAAQS standards. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant.

Construction and operation of the project would also not exceed regional thresholds for PM₁₀ or PM_{2.5} and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter or would obstruct the SDAB from coming into attainment for these pollutants. Additionally, the project would implement dust control strategies and be required to comply with SDAPCD Rule 55, Fugitive Dust, which limits the amount of fugitive dust generated during construction (SDAPCD 2009). Due to the minimal contribution of particulate matter during construction and operation, the Project is not anticipated to result in health effects associated with PM₁₀ or PM_{2.5}.

In summary, because implementation of the project would not result in exceedances of the SDAPCD regional significance thresholds during construction and operation, the potential health effects associated with criteria air

pollutants are considered **less than significant**. Furthermore, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days, and there are currently no modeling tools that could provide reliable and meaningful additional information regarding health effects from criteria air pollutants generated by individual projects within the SDAPCD jurisdiction.

Level of Significance Before Mitigation

Impacts would be less than significant.

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

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

Carbon Monoxide Hotspots

Pre-Cast and Cast-in-Place Construction Methods

Mobile-source impacts occur on two basic scales of motion. Regionally, travel associated with a project could add to regional trip generation and increase the VMT within the local airshed and the SDAB. Locally, traffic associated with a project will be added to the City's roadway system. If such traffic occurs during periods of poor atmospheric ventilation, consists of a large number of 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.

During construction, the project would generate trips associated with construction worker vehicles and vendor and haul trucks. Title 40 of the California Code of Regulations, Section 93.123(c)(5), Procedures for Determining Localized CO, PM₁₀, and PM_{2.5} Concentrations (hot-spot analysis), states that "CO, PM₁₀, and PM_{2.5} hot-spot analyses are not required to consider construction-related activities, which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established 'Guideline' methods. Temporary increases are defined as those which occur only during the construction phase and last five years or less at any individual site" (40 CFR 93.123). While project construction would involve on-road vehicle trips from trucks and workers during construction, construction activities would last up to approximately 11 months and therefore would not require a project-level construction hotspot analysis.

As discussed above, high CO concentrations would be associated with severely congested intersections operating at an unacceptable level of service (LOS) (LOS E or worse is unacceptable). Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted

if a project would result in a significant impact or contribute to an adverse traffic impact (i.e., LOS E or worse) at a signalized intersection that would potentially subject sensitive receptors to CO hotspots. According to the project’s transportation study, operation of the project would result in a nominal amount of vehicular traffic and would not result in intersections operating at or below LOS E (Fehr & Peers 2023). Therefore, the project would not result in CO hotspot-related impacts. As such, potential project-generated impacts associated with CO hotspots would be **less than significant**.

Toxic Air Contaminants

Pre-Cast and Cast-in-Place Construction Methods

Construction Health Risks

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. The conceptual construction schedule approved for analysis assumes construction of the project would occur over a period of 11 months for the Pre-Cast construction method and 14 months for the Cast-in-Place construction method. The closest sensitive receptors to the project site are multifamily residences immediately adjacent on the northwest boundary of the site⁸. As such, a construction health risk assessment was performed for the project using the methodology discussed in Section 2.3.2.2, Health Risk Assessments, above.

Based on results from the HRA, the maximally exposed individual resident (MEIR) off site would be located at a multifamily residence located northwest of the intersection of Fenton Parkway and River Park Road. Table 12 summarizes the results of the HRA for proposed project construction, and detailed results are provided in Appendix B, Health Risk Assessment Output Files.

Table 12. Construction Activity Health Risk Assessment Results Prior to Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Offsite – Pre-Cast Construction Method				
Cancer Risk	Per Million	29.15	10	Potentially Significant
HIC	Not Applicable	0.04	1	Less than Significant
Offsite – Cast-in-Place Construction Method				
Cancer Risk	Per Million	29.21	10	Potentially Significant
HIC	Not Applicable	0.03	1	Less than Significant

Source: Appendix B.

Notes: HIC = Chronic Hazard Index.

The results of the HRA demonstrate that the TAC exposure from construction diesel exhaust emissions would result in a cancer risk of 29.15 in a million for the Pre-Cast construction method and 29.21 in a million for the Cast-in-Place construction method. The Pre-Cast construction method would have a Chronic Hazard Index of 0.04 and the Cast-in-Place construction method would have a Chronic Hazard index of 0.03. The chronic hazard index for both

⁸ While the project site is surrounded by other land uses, such as offices uses, a library, and retail/commercial properties, these are not considered sensitive uses as they are transient in nature, and DPM health risk is related to long-term exposure.

construction methods would be below the 1.0 significance threshold; however, the both construction methods would exceed the cancer risk threshold of 10 in 1 million and would be potentially significant without mitigation.

Mitigation Measure AQ-1 (MM-AQ-1) would require that all diesel-fueled off-road construction equipment greater than 25 horsepower be zero-emissions or equipped with CARB Tier 4 Final compliant engines (as set forth in Section 2423 of Title 13 of the California Code of Regulations, and Part 89 of Title 40 of the Code of Federal Regulations). An exemption from these requirements may be granted, at the University’s discretion, if the contractor documents that the required tier is not reasonably available and corresponding reductions in diesel particulate matter are achieved from other construction equipment to remain below the applicable SDAPCD cancer risk threshold. Table 11 summarizes the results of the HRA for project construction after mitigation.

Table 13. Construction Activity Health Risk Assessment Results With Mitigation

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Offsite – Pre-Cast Construction Method				
Cancer Risk	Per Million	7.28	10	Less than Significant
HIC	Not Applicable	0.009	1	Less than Significant
Offsite- Cast-in-Place Construction Method				
Cancer Risk	Per Million	8.32	10	Less than Significant
HIC	Not Applicable	0.008	1	Less than Significant

Source: Appendix B.

Notes: HIC = Chronic Hazard Index.

As shown in Table 13, mitigated project construction emissions would result in a cancer risk of 7.28 in a million at the MEIR for the Pre-Cast construction method and 8.32 in a million for the Cast-in-Place construction method, which are both less than the significance threshold of 10 in 1 million. Mitigated project construction emissions would result in a chronic hazard index of 0.009 for the Pre-Cast construction method and 0.008 for the Cast-in-Place construction method, which are below the 1.0 significance threshold. The project construction health impacts would be **less than significant with mitigation**.

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Roadway Health Risks

As noted previously, the project would locate a source of TAC in the form of DPM closer to existing receptors by constructing the new bridge. Similar to the construction HRA, the closest sensitive receptors to the project site are multifamily residences immediately adjacent on the northwest boundary of the site. A roadway HRA was performed for the project using the methodology discussed in Section 2.3.2.2, Health Risk Assessments, above. Based on results from the operational HRA, the MEIR would be located at a multifamily residence located northwest of the intersection of Fenton Parkway and River Park Road. Table 14 summarizes the results of the roadway HRA for proposed project, and detailed results are provided in Appendix B, Health Risk Assessment Output Files.

Table 14. Summary of Maximum Roadway Cancer and Chronic Health Risks

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Offsite				
Cancer Risk	Per Million	1.02	10	Less than Significant
HIC	Not Applicable	0.0003	1	Less than Significant

Source: Appendix B.

Notes: HIC = Chronic Hazard Index.

The results of the roadway HRA demonstrate that the TAC exposure from roadway vehicle diesel exhaust emissions would result in a cancer risk of 1.02 in a million and a chronic hazard index of 0.0003. The project cancer risk would not exceed the cancer risk threshold of 10 in 1 million nor would the chronic hazard index exceed the 1.0 significance threshold; thus, the residential receptors near the new bridge would have cancer and chronic health risk impacts that are less than the SDAPCD health risk thresholds. The impact would be **less than significant**.

Level of Significance Before Mitigation

Impacts would be potentially significant.

Mitigation Measures

Mitigation Measure AQ-1 Tier 4 Final Construction Equipment. Prior to the commencement of any construction activities, the applicant or its designee shall provide evidence to the San Diego State University (University) that for off-road equipment with engines rated at 25 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Final. An exemption from these requirements may be granted by the University if the applicant documents that equipment with the required tier is not reasonably available and equivalent reductions in PM₁₀ exhaust emissions are achieved from other construction equipment. Before an exemption may be considered by the University, the applicant shall be required to demonstrate that three construction fleet owners/operators in the San Diego Region were contacted and that those owners/operators confirmed Tier 4 equipment could not be located within the San Diego region. The University shall review the exemption request and provide a determination within 10 business days from receipt of the request.

Level of Significance After Mitigation

Impacts would be less than significant with mitigation.

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

Pre-Cast and Cast-in-Place Construction Methods

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

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

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The project would not create any new sources of odor from these types of operations. Therefore, project operations would result in an odor impact that is **less than significant**.

Level of Significance Before Mitigation

Impacts would be less than significant.

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant without mitigation.

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 emissions 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.⁹

Carbon Dioxide. CO₂ is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic 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 from 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. Methane 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 ozone-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 ozone-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 ozone 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.

⁹ 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 "Glossary of Terms Used in GHG Inventories" (2018), and EPA's "Glossary of Climate Change Terms" (2016d).

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 particulate matter, 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). Diesel particulate matter 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 diesel particulate matter from the CARB's 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 particulate matter 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 of CO₂ equivalent (MT CO₂e).

The current version of CalEEMod (version 2022.1.1.14) 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

Per the EPA’s Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2021, total U.S. GHG emissions were approximately 6,340.2 million MT CO₂e (MMT CO₂e) in 2021 (EPA 2023d). Total U.S. emissions have decreased by 2.3% from 1990 to 2021, down from a high of 15.8% above 1990 levels in 2007. Emissions increased from 2020 to 2021 by 5.2% (314.3 MMT CO₂e). Net emissions (i.e., including sinks) were 5,586.0 MMT CO₂e in 2021. Overall, net emissions increased 6.4% from 2020 to 2021 and decreased 16.6% from 2005 levels. Between 2020 and 2021, the increase in total GHG emissions was driven largely by an increase in CO₂ emissions from fossil fuel combustion due to economic activity rebounding after the height of the COVID-19 pandemic. The CO₂ emissions from fossil fuel combustion increased by 6.8% from 2020 to 2021, including a 11.4% increase in transportation sector emissions and a 7.0% increase in electric power sector emissions. The increase in electric power sector emissions was due in part to an increase in electricity demand of 2.4% since 2020. Overall, there has been a decrease in electric power sector emissions from 1990 through 2021, which reflects the combined impacts of long-term trends in many factors, including population, economic growth, energy markets, technological changes including energy efficiency, and the carbon intensity of energy fuel choices (EPA 2023d).

According to California’s 2000–2020 GHG emissions inventory (2022 edition), California emitted approximately 369 MMT CO₂e in 2020, including emissions resulting from out-of-state electrical generation (CARB 2022g). 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 15, Greenhouse Gas Emissions Sources in California, presents California GHG emission source categories and their relative contributions to the emissions inventory in 2020.

Table 15. Greenhouse Gas Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO ₂ e) ^a	Percent of Total ^a
Transportation	135.9	37%
Industrial	73.5	20%
Electric power	59.4	16%
Commercial and Residential	38.8	10%
Agriculture	31.8	9%
High GWP substances	21.4	6%
Recycling and waste	8.9	2%
Total	369.2	100%

Source: CARB 2022g.

Notes: GHG = greenhouse gas; MMT CO₂e = million metric tons of carbon dioxide equivalent; GWP = global warming potential. Emissions reflect the 2020 California GHG inventory by Scoping Plan Category (CARB 2022g).

^a Percentage of total and annual GHG emissions have been rounded, and total may not sum due to rounding.

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 2,000 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. The Office of Environmental Health Hazard Assessment 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.

The California Natural Resources Agency (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 2018) includes reports for nine regions of the state, including the San Diego region, where the project is located. Key projected climate changes for the San Diego region include the following (CNRA 2018):

- Continued future warming over the San Diego region. Across the region, average maximum temperatures are projected to increase by 5°F to 10°F by the end of the twenty-first century.
- Extreme temperatures are also expected to increase. Heat wave frequency is expected to increase with more intensity and duration.
- Precipitation is expected to remain highly variable, but with shifts in character. There will be wetter winters, drier springs, and more frequent and severe droughts.
- Sea level along San Diego is expected to rise approximately 1 foot by the mid-twenty-first century, and by 3 feet or more by 2100.
- Wildfire risk will continue to increase in the future as the climate warms, with increased risk for large catastrophic wildfires driven by increased Santa Ana wind events.

3.2 Regulatory Setting

3.2.1 Federal Regulations

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:

- 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.”
- 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, which would aid in the reduction of national GHG emissions (EPA 2007):

- 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* U.S. Supreme Court ruling discussed above, the Bush Administration issued Executive Order (EO) 13432 directing 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, 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 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, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, EPA and 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 addition to the regulations applicable to cars and light-duty trucks described above, in 2011, EPA and 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 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, EPA and 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, 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, EPA and NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and 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 would impact the global climate by 3/1000th of 1°C by 2100 (EPA and NHTSA 2018). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives.

In 2019, EPA and 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. However, in March 2022, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate. 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 EO 13990, on December 21, 2021, NHTSA finalized the Corporate Average Fuel Economy Preemption rulemaking 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, 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 bill 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 bill allocates funds to boost renewable energy infrastructure (e.g., solar panels and wind turbines), includes tax credits for the purchase of electric vehicles, and includes measures that will make homes more energy efficient.

The Inflation Reduction Act authorized EPA to implement the Greenhouse Gas Reduction Fund program, 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 2023e).

3.2.2 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.

3.2.2.1 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

EO 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 EO 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 EO 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 an 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.

Although AB 1279 establishes an overall policy to achieve net zero GHG emissions as soon as possible, but no later than 2045, recognizing the need to implement carbon dioxide removal and carbon capture, utilization and storage technologies, the Legislature established a specific target of 85% below 1990 levels by 2045 for anthropogenic GHG emissions. Therefore, the net zero target does not directly apply to development projects, but the 2045 target of 85% below 1990 levels represents the reductions required to contribute to accomplishing the state's overall net zero policy.

California Air Resources Board's Climate Change Scoping Plan

One specific requirement of AB 32 is for CARB to prepare a scoping plan for achieving 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 (First 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 First 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 First 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 (Second Update) for public review and comment (CARB 2017a). The Second Update builds on the successful framework established in the initial Scoping Plan and First 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 Second Update recommends continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%. The Second Update was approved by CARB's Governing Board on December 14, 2017.

CARB adopted the 2022 Scoping Plan Update in December 2022. The 2022 Scoping Plan 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 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 2022h).

The 2022 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 carbon dioxide 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 Scoping Plan details "Local Actions" in Appendix D. The Local Actions includes recommendations intended 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 Appendix D are non-binding 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. Appendix D recognizes consistency with a CEQA-qualified GHG reduction plan, such as a climate action plan (CAP), as a preferred option for evaluating potential GHG emission impacts under CEQA. Absent a qualified GHG reduction plan, Appendix D provides recommendations for key attributes that residential and mixed-use projects should achieve that would align with the state's climate goals, including electric vehicle (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 (20% of units), and all-electric appliances with no natural gas connection (CARB 2022h). Projects that achieve all key attributes are considered clearly consistent with the state's climate and housing goals and would have a less-than-significant GHG impact under CEQA. However, projects that do not achieve all attributes are not considered to result in a potentially significant GHG emission impact (CARB 2022h).

California Air Resources Board's Regulations for the Mandatory Reporting of GHG Emissions

CARB's Regulation for the Mandatory Reporting of GHG Emissions (17 CCR 95100–95157) incorporated by reference certain requirements that EPA promulgated in its Final Rule on Mandatory Reporting of GHGs (40 CFR, Section 98). Specifically, Section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that EPA promulgated in the Federal Register on October 30, 2009; July 12, 2010; September 22, 2010; October 28, 2010; November 30, 2010; December 17, 2010; and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit over 10,000 MT CO_{2e} per year are required to report annual GHG emissions through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MT CO_{2e} per year threshold are required to have their GHG emissions report verified by a CARB-accredited third party.

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, methane, and fluorinated gases (CARB 2017b).

Assembly Bill 1757

AB 1757 (September 2022) requires the California Natural Resources Agency (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.

3.2.2.2 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 California Energy Commission (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 photovoltaic 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 (Part 11 of Title 24), which is commonly referred to as California’s 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. For nonresidential projects, some of the key mandatory CALGreen 2022 standards involve requirements related to bicycle parking, designated parking for clean air vehicles, EV charging stations for passenger vehicles, medium-heavy duty and heavy duty trucks , shade trees, water conserving plumbing fixtures and fittings, outdoor potable water use in landscaped areas, recycled water supply systems, construction waste management, excavated soil and land clearing debris, and commissioning (24 CCR, Part 11).

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; dishwaters; 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 photovoltaic 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).

3.2.2.3 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 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 on the Renewables Portfolio Standard 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 expanded Renewables Portfolio Standard 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, photovoltaic, 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 Renewables Portfolio Standard 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.

3.2.2.4 Mobile Sources

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

AB 1493 (July 2002) was enacted in a response to the transportation sector accounting for more than half 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 3.2.1, 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 3.2.1, 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, Part 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 ACTM 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, Part 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 CO_{2e} grams per unit of fuel energy sold in California. The Low Carbon Fuel Standard requires reduction in the carbon intensity of California vehicle fuels (e.g., diesel and gasoline) by at least 20% by 2030 as compared to the 2010 baseline. The regulation also include crediting opportunities to promote ZEV adoption, alternative jet fuel, carbon capture and sequestration and advanced technologies to achieve further decarbonization from the transportation sector (CARB 2023c).

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 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.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program

The Advanced Clean Cars I program (January 2012) is an emissions-control program for model years 2015 through 2025 (CARB 2012). 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 regulation for criteria air pollutant and GHG emissions and a technology-forcing regulation for ZEVs that contributes to both types of emission reductions (CARB 2022i). 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 Advanced Clean Cars I program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid EVs in the 2018 to 2025 model years.

The Advanced Clean Cars II program, which was adopted in August 2022, established the next set of low-emission vehicle and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality ozone standards and California's carbon neutrality standards (CARB. 2022). The main objectives of Advanced Clean Cars 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 Advanced Clean Cars 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 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 2021). 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.

3.2.2.5 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.

3.2.2.6 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. CalRecycle data from 2019 indicated that the California achieved a 37% diversion rate but will fall short of the 75% diversion rate. While California is unlikely to meet the 75% recycling goal by 2020 as set out in AB 341, CalRecycle remains committed to achieving this goal. Implementation of new legislation, such as SB 1383 and SB 1335, are important steps in reducing waste and building new markets for recycled materials.

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.

SB 1335 (2018) aims to ensure food service packaging fits into the state's recycling and composting systems, encourage packaging design improvements to protect public health and wildlife, create more takeback and reuse options at state facilities, and reduce contamination in recycling and composting streams.

3.2.2.7 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.

3.2.3 California State University Regulations

3.2.3.1 CSU Sustainability Policy

The CSU Board of Trustees adopted its first systemwide Sustainability Policy in May 2014, and most recently revised the Sustainability Policy in May 2022. The Sustainability Policy was developed to integrate sustainability into all facets of the CSU, including academics, facilities operations, built environment, and student life. The Sustainability Policy focuses mainly on energy and GHG emissions, and largely aligns with the State of California's energy and GHG emissions reduction goals (CSU 2022). It aims to reduce the environmental impact of construction and operation of buildings and to integrate sustainability across the curriculum through 11 broad policies, including

University Sustainability; Climate Action Plan; Energy Resilience and Procurement; Energy Conservation, Carbon Reduction, and Utility Management; Water Conservation; Sustainable Procurement; Waste Management; Sustainable Food Service; Sustainable Building & Lands Practices; Physical Plant Management; and Transportation.

3.2.3.2 San Diego State University Climate Action Plan (CAP)

The SDSU CAP was adopted in May 2017 to provide goals and strategies to achieve carbon neutrality and improve sustainability efforts campus-wide. The CAP includes results of a baseline emissions inventory that summarizes GHG emissions from campus operations in 2015 and projected emissions to future years to inform development of appropriate reduction strategies. While the SDSU CAP does include goals and strategies that would result in a reduction of GHG emissions at the proposed project site, the SDSU CAP is not considered qualified per CEQA Guidelines Section 15183.5. Additionally, the CAP was prepared with focus on the SDSU main campus location in the College Area of the City of San Diego. Therefore, inclusion of this plan is for informational purposes only.

3.2.4 Local Regulations

3.2.4.1 San Diego Association of Governments

As discussed in Section 3.2.2.4, Mobile Sources, 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 San Diego Climate Action Plan

The City Council adopted the 2022 Climate Action Plan (City's CAP) in August 2022. The City's CAP establishes a community-wide goal of net zero GHG emissions by 2035, and identifies the following six key strategies to achieve goals and targets of the plan (City of San Diego 2022c):

1. Decarbonization of the Built Environment
2. Access to Clean and Renewable Energy
3. Mobility and Land Use
4. Circular Economy and Clean Communities
5. Resilient Infrastructure and Health Ecosystems
6. Emerging Climate Actions

In addition to the plan, the City provided a memorandum with guidance on addressing CEQA analysis of GHG emissions for public infrastructure projects (City of San Diego 2022b). Per the memorandum, environmental analysis for public infrastructure projects should include a discussion of overall consistency with each of the strategies of the City's CAP (listed above), specifically identifying project features that would meet goals of the plan.

3.2.4.3 Mission Valley Community Plan

The Mission Valley Community Plan Update is intended to be a blueprint for future development in Mission Valley, where the proposed project is located. The Update was adopted by the City of San Diego's City Council on September 10, 2019 (City of San Diego 2019). It provides Design Guidelines and Policies for Development to implement the City's 2015 CAP, maximize transit ridership, and increase mobility options, among others. The Update references the proposed project, highlighting the roadway expansion as an important development to help support mobility within the eastern portion of the community.

3.3 Significance Criteria and Methodology

3.3.1 Thresholds of Significance

The significance criteria used to evaluate the project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines and consistent with the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2022a). For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG 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 GHGs?¹⁰

CEQA Guidelines

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 proposed 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.

With respect to GHG emissions, 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]):

¹⁰ The CSU acknowledges that the time of preparation of this Draft Air Quality and Greenhouse Gas Emissions Technical Report, the City's 2022 CAP is the subject of litigation, so any reference to the City's CAP and analysis of the project's potential conflict with the City's CAP is for informational purposes only.

The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.

1. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
2. 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 CEQA Guidelines. The 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 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)).

Governor’s Office of Planning and Research Guidance

The Governor’s Office of Planning and Research technical advisory titled, CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review, states that “public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects 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” (OPR 2018). 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” (OPR 2008).

Approach to Determining Significance

Given that neither the CSU, nor CARB, nor SDAPCD have established a numerical threshold of significance for GHG emissions for the project region, the approach for evaluating the project’s impacts related to GHG emissions relies on consistency with applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHGs. The consistency evaluation is the sole basis for determining the significance of the project’s GHG-related impacts on the environment.

Nevertheless, and in accordance with Section 15064.4 of the CEQA Guidelines, GHG emissions resulting from implementation 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 currently

undeveloped. The GHG emissions associated with implementation of the project were estimated using industry standard and accepted software tools, techniques, and emissions factors, as described below under Section 3.3.1. Estimation of emissions is for informational purposes only, for comparison with existing environmental conditions. The significance of the project's GHG impacts is based on the project's compliance with statewide GHG reduction regulations and requirements. Guidance on reduction strategies for GHG emissions has been provided at the state level through the CARB Scoping Plans, and at the local level through the SANDAG RTP/SCS, the City's CAP, CSU's Sustainability Policy, and the SDSU CAP.

If the proposed project is consistent with or exceeds the actions outlined in the applicable state plans and local plans, the project could appropriately rely on their use as showing compliance with performance-based standards adopted to fulfill the statewide goal for reducing GHG emissions. The project's compliance with regulatory programs adopted by CARB, and other state and local agencies is therefore used to evaluate the significance of the project's GHG emissions.

3.3.2 Approach and Methodology

3.3.2.1 Construction

Consistent with the air quality approach described in Section 2.3.2, CalEEMod 2022 was used to estimate potential project-generated GHG emissions during construction for both Pre-Cast and Cast-in-Place construction methods. Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details for construction criteria air pollutants discussed in Section 2.3.2, are also applicable for the estimation of construction-related GHG emissions. As such, please refer to Section 2.3.2 for a discussion of construction emissions calculation methodology and assumptions. For additional details see Appendix A, Air Quality and Greenhouse Gas Emissions CalEEMod Output Files.

3.3.2.2 Operation

The proposed project is expected to have only minor increases in GHG emissions during operations related to street lighting and periodic maintenance (e.g., re-striping). As such, operational GHG emissions were not quantitatively estimated.

3.4 Impact Analysis

As discussed in Section 3.3.1, the significance of the project's GHG emission impacts is determined through an evaluation of compliance with regulations and requirements adopted to implement statewide, regional, and local plans for the purpose of reducing GHG emissions. While the GHG emissions increase associated with the project was quantified, the estimate is provided for informational purposes in accordance with Section 15064.4 of the CEQA Guidelines and is not used for determination of significance. As such, the Appendix G thresholds are considered together below, beginning with the evaluation of the project's compliance with applicable plans.

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

Estimated GHG Emissions

As discussed above, project-generated GHG emissions are presented for informational purposes and are not used in determining the significance of potential GHG-related impacts. Construction of the project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, haul trucks, on-road vendor trucks, and worker vehicles. Given that the project would have minor operational emissions (lighting, periodic re-striping), and would result in a decrease in regional VMT from existing conditions, operational emissions would be nominal and were not quantitatively estimated. Construction and operational GHG emissions related to the proposed project are discussed further below.

Pre-Cast Construction Method

Construction Emissions

CalEEMod 2022 was used to calculate the annual GHG emissions based on the construction assumptions presented in Section 3.3.1 for the Pre-Cast construction method. On-site sources of GHG emissions include off-road equipment and off-site sources including vendor trucks and worker vehicles. Table 16 presents construction emissions for the project using the Pre-Cast construction method in 2025 from on-site and off-site emission sources.

Table 16. Pre-Cast Construction Method Estimated Annual Construction Greenhouse Gas Emissions

Year	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
Metric Tons per Year					
2025*	1,164.51	0.05	0.08	0.62	1,189.24
Total					1,189.24
<i>Amortized 30-Year Construction Emissions</i>					<i>39.64</i>

Source: See Appendix A for complete results.

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; R = refrigerant; CO₂e = carbon dioxide equivalent; <0.01 = reported value less than 0.01. The values shown are the annual emissions reflect CalEEMod “mitigated” output.

Totals may not add due to rounding.

* CalEEMod modeling presented in Appendix A for the Pre-Cast Scenario was prepared using an earlier construction date of 2024, however, work would occur in 2025 or later. The use of an earlier construction year provides a “worst-case scenario” estimate of emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

As shown in Table 16, the estimated total GHG emissions during construction of the project using the Pre-Cast method of construction would be approximately 1,189 MT CO₂e over the construction period. Estimated project-generated construction emissions amortized over 30 years¹¹ would be approximately 40 MT CO₂e per year. As with project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the

¹¹ Consistent with industry standard practice and guidance provided in the South Coast Air Quality Management District’s GHG guidance (SCAQMD 2008).

project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Cast-in-Place Construction Method

Construction Emissions

CalEEMod 2022 was used to calculate the annual GHG emissions based on the construction assumptions presented in Section 3.3.1 for the Cast-in-Place construction method. On-site sources of GHG emissions include off-road equipment and off-site sources including vendor trucks and worker vehicles. Table 17 presents construction emissions for the project in 2025 from on-site and off-site emission sources.

Table 17. Cast-in-Place Construction Method Estimated Annual Construction Greenhouse Gas Emissions

Year	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
	Metric Tons per Year				
2025	1,215.93	0.05	0.09	0.82	1,246.02
2026	218.04	0.01	0.01	0.09	222.75
Total					1,468.77
<i>Amortized 30-Year Construction Emissions</i>					<i>48.96</i>

Source: See Appendix A for complete results.

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; R = refrigerant; CO₂e = carbon dioxide equivalent; <0.01 = reported value less than 0.01. The values shown are the annual emissions reflect CalEEMod “mitigated” output. Totals may not add due to rounding.

As shown in Table 17, the estimated total GHG emissions during construction of the project using the Cast-in-Place construction method would be approximately 1,468.77 MT CO₂e over the construction period. Estimated project-generated construction emissions amortized over 30 years¹² would be approximately 49 MT CO₂e per year. As with project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

Pre-Cast and Cast-in-Place Construction Methods

Once project construction is complete, the project would provide a two-lane roadway extension of Fenton Parkway south with a bridge over the San Diego River Park Road to Camino Del Rio North. The roadway extension would include separated bike lanes and sidewalks, providing a new high-water crossing over the San Diego River. Similar to existing conditions, there could be occasional routine maintenance (e.g., re-striping, re-paving, etc.) during operation of the roadway expansion; however, these activities would be minor and result in only a nominal increase GHG emissions.

¹² Consistent with industry standard practice and guidance provided in the South Coast Air Quality Management District’s GHG guidance (SCAQMD 2008).

Additionally, per the transportation study prepared for the proposed project, the project is expected to result in a decrease in VMT within a three-mile and five-mile radius because the project provides a more direct route to and from destinations (Fehr & Peers 2023). Because the project will result in a reduction in VMT, it will also necessarily result in a reduction in GHG emissions from vehicles. Moreover, as the vehicle fleet is replaced overtime with more fuel-efficient vehicles and ZEVs, GHG emissions tied to the project will be reduced. Finally, through the installation of protected bike lanes and sidewalks, providing easy last mile connections to the MTS Green Line trolley transit stop and regional bike networks, the project will also increase the use of multimodal transit, reducing reliance on vehicles and also reducing GHG emissions in the region.

Level of Significance Before Mitigation

As noted previously, there is no numeric threshold appropriate to evaluate the significance of project-generated GHG emissions. As such, the estimation of GHG emissions increase generated by the project provided above is for informational purposes in accordance with Section 15064.4 of the State CEQA Guidelines. The significance of the projects GHG emission impacts is determined through an evaluation of compliance with regulations and requirements adopted to implement statewide, regional, and local plans for the purpose of reducing GHG emissions, as discussed below under Section 3.4.2. As discussed in Section 3.4.2, impacts would be **less than significant**.

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant.

3.4.2 Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Applicable plans for the proposed project include the CSU Sustainability Policy, as most recently revised in May 2022; the 2017 Climate Action Plan for SDSU (SDSU CAP); the City of San Diego's Climate Action Plan (City's CAP), SANDAG's RTP/SCS, and CARB's Scoping Plan. Each of these plans is described below along with an analysis of the proposed project's potential to conflict with the related GHG emission reduction goals.

Pre-Cast and Cast-in-Place Construction Methods

Project Potential to Conflict with the California State University Sustainability Policy

As discussed previously, the CSU Sustainability Policy was developed to integrate sustainability into all facets of the CSU, including academics, facilities operations, built environment, and student life. The Sustainability Policy largely aligns with the state's energy and GHG emissions reduction goals and aims to reduce impacts from construction and operation activities associated with CSU. Actions within the CSU Sustainability Policy address energy resilience and procurement; energy conservation, carbon reduction and utility management; water conservation; sustainable procurement; waste management; sustainable food service; sustainable building and lands practices; physical

plant management; and transportation. The proposed project would comply with all relevant requirements of the CSU Sustainability Policy, which include those related to waste management, and transportation.

To reduce emissions from solid waste, CSU seeks to reduce landfill bound waste to 50% of total campus waste by 2030 and divert at least 80% from the landfill by 2040 in pursuit of their zero-waste goal. The proposed project would be consistent with the CSU's solid waste targets as it will minimize waste during construction through compliance with the City's Construction and Demolition (C&D) Debris Diversion Ordinance, which requires diversion of 65% of construction debris. The project would also not conflict with the CSU's future zero waste goals, as long-term operation is not anticipated to result in solid waste production.

To reduce emissions from transportation, the CSU Sustainability Policy encourages and promotes use of alternative transportation and the development of transportation demand management plans to reduce VMT at the CSU campuses. As discussed previously, the proposed project involves a roadway expansion and infrastructure enhancement to connect residents and businesses south of the San Diego River to land uses north of the river off Friars Road, including the SDSU Mission Valley development. The roadway expansion and bridge include separated bike lanes and sidewalks, which will promote alternative travel along the new high-water crossing over the San Diego River. The proposed project is not expected to increase VMT within the region, given that the expansion provides a more direct route to and from destinations. As such, the proposed project would support the CSU's goal of GHG emission reductions from mobile sources and waste. Therefore, the proposed project would not conflict with the CSU Sustainability Policy.

Project Potential to Conflict with the 2017 Climate Action Plan for San Diego State University

Emissions sources in the SDSU CAP's baseline inventory and emissions projections include energy use, solid waste, water use, and student and faculty/staff commute (i.e., mobile source emissions) associated with activity at SDSU's main campus. Overall, emissions from energy use and mobile sources accounted for the majority of GHG emissions in the baseline inventory, and therefore present the greatest opportunity for future GHG emissions reductions. Consistent with the SDSU CAP, the proposed project would include features that support SDSU's goals for reducing emissions from the energy and mobile sectors.

The CAP vision for energy highlights a shift from natural gas-based co-generation toward grid energy and on-site renewables. For solid waste, the CAP aims to encourage recycling and move toward zero-waste in the future. The CAP's vision for water use is to encourage efficient landscaping (e.g., drought-resistant and native species, limited turf, and efficient irrigation systems), and ensure ultra-low flow and high-performance fixtures are used for potable systems. As a public infrastructure improvement, the proposed project will not result in significant energy use, and emissions related to energy would be limited to minimal streetlighting. The project would also not result in long-term increases in solid waste production but would minimize waste during construction through compliance with the City's C&D Debris Diversion Ordinance, which requires diversion of 65% of construction debris. While there are no water use components anticipated with operation of the proposed project, all landscaping/re-planting associated with the proposed project would use drought-resistant and native species.

The SDSU CAP's vision for transportation emissions includes improvement of bicycle and pedestrian amenities and overall reduction in single-occupancy vehicle trips to the campus. As discussed previously, the proposed project involves a roadway expansion and infrastructure enhancement to connect residents and businesses south of the San Diego River to land uses north of the river off Friars Road, including the SDSU Mission Valley development, which was approved by the Board of Trustees of the CSU in 2020 (City of San Diego 2019). The roadway expansion and bridge include separated bike lanes and sidewalks, which will promote alternative travel along the new

high-water crossing over the San Diego River. This new bicycle and pedestrian route in an area with limited north-south connectivity is expected to substantially reduce trip lengths for these modes and greatly encourage their use. Additionally, the controlled intersection crossings and designated bicycle facilities through intersections will enhance multimodal safety, in addition to enhancing first-mile/last mile access to the existing Fenton Parkway trolley station. The proposed project is also expected to decrease VMT within the region, given that the expansion provides a more direct route to and from destinations. As such, the proposed project would support the vision of and not conflict with the relevant goals of the SDSU CAP.

Project Potential to Conflict with the City of San Diego's Climate Action Plan

The City's Climate Action Plan is a local regulation and therefore is not binding on CSU, which is a state agency. Nevertheless, because the City will ultimately own and operate the proposed project following its construction, and because the proposed project is located within the territorial limits of the City, an analysis of the proposed project's consistency with the City's CAP is provided for informational purposes. This analysis does not form the basis for concluding whether the project has a significant CEQA impact; it is informational only.

As discussed previously, the City's 2022 CAP included CAP Consistency Regulations (in replacement of their previous checklist) for general land use project-level analyses. For public infrastructure projects, the City prepared a memo (Climate Action Plan Consistency for Plan- and Policy-Level Environmental Documents and Public Infrastructure Projects Memo), which outlines an alternative approach to evaluating project consistency with the CAP that is more appropriate for infrastructure projects (City of San Diego 2022b). Per the City's recommended approach, environmental analysis for public infrastructure projects should include a discussion of overall consistency with each of the City's CAP key strategies, specifically identifying project features that would meet goals of the plan. The six key strategies of the CAP are provided below, with a discussion of the proposed project's consistency.

Strategy 1: Decarbonization of the Built Environment

Strategy 1 of the City's CAP recognizes the large emission reduction potential from reducing the use of energy generated from fossil fuels and the use of natural gas in buildings. The City's CAP has adopted a goal to achieve zero emissions municipal buildings and operations by 2035. Actions to achieve this goal include use of LED streetlights and auto-dimming technology where public safety would not be compromised. Consistent with this strategy, streetlights installed on the new bridge and roadway expansion would use LED lights and incorporate auto-dimming, where appropriate. The proposed project does not involve construction or operation of new or existing buildings and would not conflict with the City's additional strategies to reduce emissions from building energy.

Strategy 2: Access to Clean & Renewable Energy

Strategy 2 of the City's CAP includes a goal of 100% renewable or GHG-free power for the City by 2030. To achieve this goal, the City plans to partner with San Diego Community Power to increase adoption of 100% renewable energy supply and to incentivize local generation of renewable energy resources, increase municipal ZEVs, and expand EV charging to encourage citywide adoption of electric vehicles and bicycles. The proposed project would result in roadway expansion and a vehicular and bicycle/pedestrian bridge providing a new high-water crossing over the San Diego River. The project does not propose any development that would typically support installation of EV charging infrastructure or necessitate renewable energy technologies (e.g., battery storage, solar, microgrids). The proposed project would not conflict with the City's ability to implement and achieve their renewable energy goals and would support alternative transportation in its capacity as a new connection for bicycle and pedestrian travel.

Strategy 3: Mobility & Land Use

The City's CAP Strategy 3 addresses mobile source emissions and land use patterns throughout the City. The strategy promotes bike and pedestrian projects to encourage alternative modes of transit, and actions to reduce traffic and congestion across the City. This new bicycle and pedestrian route in an area with limited north-south connectivity is expected to substantially reduce trip lengths for these modes and greatly encourage their use. Additionally, the controlled intersection crossings and designated bicycle facilities through intersections will enhance multimodal safety, in addition to enhancing first-mile/last-mile access to the existing MTS Green Line trolley stop, which is at the north end of the proposed bridge. The proposed project is consistent with this strategy as it provides new alternative travel over the San Diego River, including separated bike lanes and sidewalks for pedestrians to encourage and facilitate non-vehicle modes of travel.

Strategy 4: Circular Economy & Clean Communities

Strategy 4 of the City's CAP addresses waste and clean communities. To achieve their waste-related goals, the City proposes actions to change the waste stream; reduce municipal waste; encourage food waste prevention and food recovery; update, adopt, and implement the Zero Waste Plan; and capture methane from wastewater treatment facilities. Consistent with this strategy, the proposed project will comply with the City's C&D Debris Diversion Ordinance, diverting 65% of C&D debris generated during proposed project construction. There would be no long-term increase in solid waste production associated with operation of the proposed project, which would therefore not impede achievement of the City's goals.

Strategy 5: Resilient Infrastructure and Healthy Ecosystems

The City's CAP also includes actions related to the natural and built environments to reflect the City's resiliency work to prepare for the impacts of climate change and minimize its negative effects. Per the City's guidance memo for analyzing consistency with the CAP, public infrastructure projects shall describe project features that further the City's resiliency goals through project features that increase tree planting (e.g., replace street trees that are removed, add street trees to the public right-of-way, or offering street trees to adjacent property owners), or features that support climate resiliency such as storm drain maintenance to prepare for greater prevalence of extreme rain events.

Consistent with this strategy, all vegetation removed during construction of the bridge would be replaced at a minimum ratio of 1:1 (see also Biological Resources Technical Report, Dudek 2023). The existing storm drain outlet located at the south terminus of the bridge will be relocated as part of this project to direct water further downstream away from bridge footings. A series of catchment basin and water quality/drainage features will also be located at the north terminus of the bridge. The City of San Diego will continue to provide maintenance of these newly constructed facilities. The provision of an additional high-water crossing over the San Diego River also addresses the storm and flood-related effects of more intense storms associated with climate change and provides climate resilient infrastructure. As such, the proposed project would support the City's goals related to resilient infrastructure and healthy ecosystems.

Strategy 6: Emerging Climate Action

Strategy 6 of the City's CAP addresses emerging actions to reach emission reduction goals. Emerging actions include new policies, technological innovation, partnerships, and research that advances the City's net zero goal. While the proposed project does not explicitly propose emerging climate action strategies, as the vehicle fleet is replaced overtime with more fuel-efficient vehicles and ZEVs, mobile GHG emissions associated with the project

will decrease into the future. As such, implementation of the roadway expansion will not conflict with the City's achievement of this strategy.

Project Potential to Conflict with the SANDAG Regional Transportation Plan/Sustainable Communities Strategy

SANDAG's 2021 Regional Plan is a RTP/SCS, which is a regional plan that and therefore is not binding on CSU, which is a state agency. Nevertheless, because the proposed project is located within the study area for the RTP/SCS, an analysis of the proposed project's consistency with the RTP/SCS is provided for informational purposes. This analysis does not form the basis for concluding whether the project has a significant CEQA impact; it is informational only.

The primary objective of the RTP/SCS is to provide guidance for future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout the region, as stipulated under SB 375. As discussed previously, the proposed project includes a roadway expansion and infrastructure enhancement to connect residents and businesses south of the San Diego River to land uses north of the river. The proposed project would not promote population growth or increase VMT within the region, given that the expansion provides a more direct route to and from destinations.

Additionally, the proposed project supports the RTP/SCS key strategy related to complete corridors, which aims to provide roadways with dedicated, safe spaces for everyone, including people who walk, bike, drive, and ride transit. Consistent with this strategy, the proposed project includes protected bike lanes and sidewalks, as well as enhancing access to the existing MTS Green Line trolley stop, which is at the north end of the proposed bridge. As such, the project is presumed to have a less-than-significant VMT impact and would support the region and the goals of the RTP/SCS in achieving long-term climate goals through reduction of transportation-related GHG emissions.

Project Potential to Conflict with State Reduction Targets and CARB's 2022 Scoping Plan

The California State Legislature passed the Global Warming Solutions Act of 2006 (AB 32) to provide initial direction to limit California's GHG emissions to 1990 levels by 2020 and initiate the state's long-range climate objectives. Since the passage of AB 32, the state has adopted GHG emissions reduction targets for future years beyond the initial 2020 horizon year. For the proposed project, the relevant GHG emissions reduction targets include those established by SB 32 and AB 1279, which require GHG emissions be reduced to 40% below 1990 levels by 2030, and 85% below 1990 levels by 2045, respectively. In addition, AB 1279 calls upon the state to achieve net zero GHG emissions by no later than 2045 and achieve and maintain net negative GHG emissions thereafter.

As defined by AB 32, CARB is required to develop the Scoping Plan, which provides the framework for actions to achieve the state's GHG emission targets. The Scoping Plan is required to be updated every 5 years and requires CARB and other state agencies to adopt regulations and initiatives that will reduce GHG emissions statewide. The first Scoping Plan was adopted in 2008, with subsequent updates adopted in 2014, 2017, and (most recently) 2022. While the Scoping Plan is not directly applicable to specific projects, it does provide the official framework for the measures and regulations that will be pursued by the state's executive branch of government to reduce California's GHG emissions in alignment with the legislatively adopted targets. Therefore, a project would be found to not conflict with the statutes establishing statewide GHG reduction targets if it would meet the Scoping Plan policies and would not impede attainment of the goals therein.

CARB's 2017 Scoping Plan was the first to address the state's strategy for achieving the 2030 GHG reduction target set forth in SB 32 (CARB 2017a). The most recent 2022 Scoping Plan outlines the state's plan to reduce emissions and achieve carbon neutrality by 2045 in alignment with AB 1279, and assesses the state's progress towards meeting the 2030 SB 32 target (CARB 2022h). As such, given that SB 32 and AB 1279 are the relevant GHG emission targets, the 2017 and 2022 Scoping Plans that outline the strategy to achieve those targets are the most applicable to the proposed project.

To achieve the 2030 goal of 40% below 1990 GHG emission levels, the 2017 Scoping Plan included measures to promote renewable energy and energy efficiency (including the mandates of SB 350), measures to increase the stringency of the Low Carbon Fuel Standard, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed SLCP Plan, and measures to increase the stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, the 2017 Scoping Plan also recommended continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%. Many of these measures and programs would result in the reduction of project-related GHG emissions with no action required at the project-level. These programs would benefit GHG emission reductions through increased energy efficiency and renewable energy production (SB 350), reduction in carbon intensity of transportation fuels (Low Carbon Fuel Standard), and the accelerated efficiency and electrification of the statewide vehicle fleet (Mobile Source Strategy). Implementation of these statewide programs would result in a reduction of operational GHG emissions over the project lifetime.

CARB approved the 2022 Scoping Plan in December 2022 to outline the state's plan to reduce anthropogenic emissions to 85% below 1990 levels by 2045 and achieve carbon neutrality by 2045 or earlier. The 2022 Scoping Plan also assesses the progress the state is making towards reducing GHG emissions by at least 40% below 1990 levels by 2030, as is required by SB 32 and laid out in the 2017 Scoping Plan. The carbon reduction programs included in the 2022 Scoping Plan 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; and displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines) (CARB 2022c). Implementation of the measures and programs included in the 2022 Scoping Plan largely are the responsibility of policymakers and would result in the reduction of project-related GHG emissions with no action required at the project-level. Given that the proposed project includes bike lanes and pedestrian sidewalks that encourage alternative modes of travel, implementation would support the 2022 Scoping Plan's goals of displacing fossil-fuel fired electrical generation through enhancing connectivity and increasing accessibility with sustainable transit options.

The 2045 carbon neutrality goal required CARB to expand proposed actions in the 2022 Scoping Plan to include those that capture and store carbon in addition to those that reduce only anthropogenic sources of GHG emissions. The proposed project would not conflict with the state's carbon neutrality goals, including actions related to capturing and storing carbon. The 2022 Scoping Plan indicates that achieving carbon neutrality will require research, development, and deployment of additional methods to capture atmospheric GHG emissions (e.g., mechanical direct air capture). Given that the specific path to neutrality will require development of technologies and programs that are not currently known or available, the project's role in supporting the statewide goal would be speculative and cannot be wholly identified at this time.

Overall, the proposed project would comply will all regulations adopted in furtherance of the Scoping Plan to the extent applicable and required by law. As mentioned above, several Scoping Plan measures would result in

reductions of project-related GHG emissions with no action required at the project-level, including those related to energy efficiency, reduced fossil fuel use, and renewable energy production. As demonstrated above, the proposed project would not conflict with CARB's 2017 or 2022 Scoping Plan updates and with the state's ability to achieve the 2030 and 2045 GHG reduction and carbon neutrality goals.

Level of Significance Before Mitigation

As discussed above, the project's significance is based on its potential to conflict with the applicable plans adopted for the purpose of reducing GHG emissions, including the CSU Sustainability Policy, the 2017 SDSU CAP, the City's CAP, SANDAG's RTP/SCS, and CARB's Scoping Plan. As shown, the proposed project 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**.

Mitigation Measures

No mitigation is required.

Level of Significance After Mitigation

Impacts would be less than significant.

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Appendix A

Air Quality and Greenhouse Gas Emissions
CalEEMod Output Files

Fenton Construction Phase 1 Detailed Report

Bridge Construction

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton Construction Phase 1
Construction Start Date	1/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.16

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
User Defined Industrial	0.20	User Defined Unit	1.50	0.00	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	4.04	3.24	33.2	30.6	0.09	1.05	2.30	3.34	0.97	0.60	1.57	—	12,282	12,282	0.52	0.90	18.9	12,582
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.75	6.89	77.1	64.7	0.26	2.33	10.2	12.1	2.16	4.36	6.09	—	33,878	33,878	1.46	2.62	1.22	34,697
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.30	1.85	18.4	16.5	0.05	0.62	1.43	2.05	0.57	0.48	1.05	—	6,210	6,210	0.27	0.40	3.34	6,339
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.42	0.34	3.36	3.02	0.01	0.11	0.26	0.37	0.10	0.09	0.19	—	1,028	1,028	0.04	0.07	0.55	1,049

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	4.04	3.24	33.2	30.6	0.09	1.05	2.30	3.34	0.97	0.60	1.57	—	12,282	12,282	0.52	0.90	18.9	12,582
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	8.75	6.89	77.1	64.7	0.26	2.33	10.2	12.1	2.16	4.36	6.09	—	33,878	33,878	1.46	2.62	1.22	34,697
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.30	1.85	18.4	16.5	0.05	0.62	1.43	2.05	0.57	0.48	1.05	—	6,210	6,210	0.27	0.40	3.34	6,339
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.42	0.34	3.36	3.02	0.01	0.11	0.26	0.37	0.10	0.09	0.19	—	1,028	1,028	0.04	0.07	0.55	1,049

3. Construction Emissions Details

3.1. Site Preparation (2024) - 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	3.49	2.93	27.8	26.3	0.05	1.26	—	1.26	1.16	—	1.16	—	5,145	5,145	0.21	0.04	—	5,162
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
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	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.14	1.08	< 0.005	0.05	—	0.05	0.05	—	0.05	—	211	211	0.01	< 0.005	—	212
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.15	0.15	—	—	—	—	—	—	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.69	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	146	146	0.01	0.01	0.02	—
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.01	—
Hauling	0.04	0.01	0.82	0.28	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	587	587	0.03	0.09	0.03	—
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	—	6.06	6.06	< 0.005	< 0.005	0.01	—
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.19	4.19	< 0.005	< 0.005	< 0.005	—

Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.1	24.1	< 0.005	< 0.005	0.02	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.00	1.00	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	—
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.99	3.99	< 0.005	< 0.005	< 0.005	—

3.3. Grading (2024) - 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	2.87	2.41	22.5	20.2	0.07	0.86	—	0.86	0.79	—	0.79	—	7,877	7,877	0.32	0.06	—	7,904
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.93	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	324	324	0.01	< 0.005	—	325
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.6	53.6	< 0.005	< 0.005	—	53.8	
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	0.05	0.04	0.04	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	91.3	91.3	< 0.005	< 0.005	0.01	—	
Vendor	0.01	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	0.01	—	
Hauling	0.14	0.04	2.66	0.92	0.01	0.03	0.48	0.52	0.03	0.13	0.17	—	1,908	1,908	0.10	0.31	0.11	—	
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	—	
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.28	6.28	< 0.005	< 0.005	0.01	—	
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.4	78.4	< 0.005	0.01	0.07	—	
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	—	
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	—	
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.01	—	

3.5. Grading (2024) - 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	1.84	1.54	14.0	13.6	0.02	0.63	—	0.63	0.58	—	0.58	—	2,162	2,162	0.09	0.02	—	2,170
Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.19	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.90	4.90	< 0.005	< 0.005	—	4.92

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.52	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	110	110	0.01	< 0.005	0.01	—
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.01	—
Hauling	0.02	0.01	0.41	0.14	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	294	294	0.02	0.05	0.02	—
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	—	1.52	1.52	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	—
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.02	4.02	< 0.005	< 0.005	< 0.005	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	—
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	—

3.7. Grading (2024) - 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	2.87	2.41	22.5	20.2	0.07	0.86	—	0.86	0.79	—	0.79	—	7,877	7,877	0.32	0.06	—	7,904
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.93	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	324	324	0.01	< 0.005	—	325
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.6	53.6	< 0.005	< 0.005	—	53.8
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	91.3	91.3	< 0.005	< 0.005	0.01	—
Vendor	0.01	0.01	0.22	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	0.01	—
Hauling	0.14	0.04	2.66	0.92	0.01	0.03	0.48	0.52	0.03	0.13	0.17	—	1,908	1,908	0.10	0.31	0.11	—
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	—
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.28	6.28	< 0.005	< 0.005	0.01	—
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.4	78.4	< 0.005	0.01	0.07	—
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	—
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	—
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.01	—

3.9. Grading (2024) - 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	1.84	1.54	14.0	13.6	0.02	0.63	—	0.63	0.58	—	0.58	—	2,162	2,162	0.09	0.02	—	2,170

Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.19	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.90	4.90	< 0.005	< 0.005	—	4.92
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.52	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	110	110	0.01	< 0.005	0.01	—
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	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	—

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	—	1.52	1.52	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.40	1.40	< 0.005	< 0.005	< 0.005	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	—
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	—

3.11. Building Construction (2024) - 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	1.56	1.29	11.3	10.3	0.02	0.43	—	0.43	0.40	—	0.40	—	2,091	2,091	0.08	0.02	—	2,098
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.56	1.29	11.3	10.3	0.02	0.43	—	0.43	0.40	—	0.40	—	2,091	2,091	0.08	0.02	—	2,098
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.02	0.85	7.40	6.73	0.01	0.28	—	0.28	0.26	—	0.26	—	1,369	1,369	0.06	0.01	—	1,374
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.15	1.35	1.23	< 0.005	0.05	—	0.05	0.05	—	0.05	—	227	227	0.01	< 0.005	—	227
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	1.19	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	232	232	0.01	0.01	0.93	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	219	219	0.01	0.01	0.02	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.69	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	145	145	0.01	0.01	0.26	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.04	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	—

3.13. Building Construction (2024) - 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	1.63	1.37	11.6	12.2	0.04	0.48	—	0.48	0.44	—	0.44	—	4,106	4,106	0.17	0.03	—	4,120
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.95	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	—	337	337	0.01	< 0.005	—	339
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	55.9	55.9	< 0.005	< 0.005	—	56.1
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.08	0.07	0.87	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	183	183	0.01	0.01	0.02	—
Vendor	0.72	0.33	12.3	5.65	0.06	0.11	2.16	2.28	0.11	0.60	0.71	—	8,614	8,614	0.37	1.20	0.57	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	0.03	—
Vendor	0.06	0.03	1.01	0.46	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	708	708	0.03	0.10	0.78	—
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.51	2.51	< 0.005	< 0.005	< 0.005	—
Vendor	0.01	0.01	0.18	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	117	117	0.01	0.02	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	—

3.15. Building Construction (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.03	0.33	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.4	81.4	< 0.005	< 0.005	—	81.7
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	13.5	< 0.005	< 0.005	—	13.5
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	219	219	0.01	0.01	0.02	—
Vendor	0.25	0.11	4.22	1.94	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,956	2,956	0.13	0.41	0.20	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.03	—
Vendor	0.02	0.01	0.35	0.16	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	243	243	0.01	0.03	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.01	3.01	< 0.005	< 0.005	0.01	—
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.2	40.2	< 0.005	0.01	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	—

3.17. Building Construction (2024) - 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	0.61	0.52	5.43	5.55	0.01	0.21	—	0.21	0.20	—	0.20	—	1,372	1,372	0.06	0.01	—	1,377
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.52	5.43	5.55	0.01	0.21	—	0.21	0.20	—	0.20	—	1,372	1,372	0.06	0.01	—	1,377
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.45	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	113	113	< 0.005	< 0.005	—	113
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.7
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	1.19	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	232	232	0.01	0.01	0.93	—

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	0.11	0.10	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	219	219	0.01	0.01	0.02	—	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—	
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	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.03	—	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—	
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	—	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.01	3.01	< 0.005	< 0.005	0.01	—	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—	
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	—	

3.19. Building Construction (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.30	< 0.005	0.02	—	0.02	0.01	—	0.01	—	95.0	95.0	< 0.005	< 0.005	—	95.3
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.7	15.7	< 0.005	< 0.005	—	15.8
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	1.19	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	232	232	0.01	0.01	0.93	—
Vendor	0.25	0.12	4.08	1.88	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,955	2,955	0.13	0.41	7.59	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	219	219	0.01	0.01	0.02	—
Vendor	0.25	0.11	4.22	1.94	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,956	2,956	0.13	0.41	0.20	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	21.2	21.2	< 0.005	< 0.005	0.04	—
Vendor	0.02	0.01	0.40	0.18	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	283	283	0.01	0.04	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.51	3.51	< 0.005	< 0.005	0.01	—
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	46.9	46.9	< 0.005	0.01	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	—

3.21. Building Construction (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.21	0.95	< 0.005	0.05	—	0.05	0.04	—	0.04	—	298	298	0.01	< 0.005	—	299
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.4	49.4	< 0.005	< 0.005	—	49.6

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	1.19	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	232	232	0.01	0.01	0.93	—	
Vendor	0.25	0.12	4.08	1.88	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,955	2,955	0.13	0.41	7.59	—	
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	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.03	0.03	0.03	0.32	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	66.7	66.7	< 0.005	< 0.005	0.12	—	
Vendor	0.07	0.03	1.27	0.58	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	891	891	0.04	0.12	0.98	—	
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	—	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.02	—	
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	147	147	0.01	0.02	0.16	—	
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	—	

3.23. Building Construction (2024) - 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	0.61	0.52	5.43	5.55	0.01	0.21	—	0.21	0.20	—	0.20	—	1,372	1,372	0.06	0.01	—	1,377
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.9
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.11	3.11	< 0.005	< 0.005	—	3.12
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.08	1.19	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	232	232	0.01	0.01	0.93	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	3.03	3.03	< 0.005	< 0.005	0.01	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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	—

3.25. Building Construction (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.1	27.1	< 0.005	< 0.005	—	27.2
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.49	4.49	< 0.005	< 0.005	—	4.51
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.20	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	38.7	38.7	< 0.005	< 0.005	0.16	—
Vendor	0.12	0.06	1.97	0.91	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,427	1,427	0.06	0.20	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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.01	1.01	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.1	39.1	< 0.005	0.01	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 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	—

3.27. Building Construction (2024) - 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	0.40	0.34	2.66	4.15	0.01	0.13	—	0.13	0.12	—	0.12	—	643	643	0.03	0.01	—	645
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	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.2	35.2	< 0.005	< 0.005	—	35.4
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.83	5.83	< 0.005	< 0.005	—	5.85
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.40	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	77.4	77.4	< 0.005	< 0.005	0.31	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.02	0.01	0.40	0.14	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	293	293	0.02	0.05	0.63	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	4.04	4.04	< 0.005	< 0.005	0.01	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.1	16.1	< 0.005	< 0.005	0.01	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.66	2.66	< 0.005	< 0.005	< 0.005	—
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3.29. Building Construction (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.74	6.74	< 0.005	< 0.005	—	6.76
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.20	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	38.7	38.7	< 0.005	< 0.005	0.16	—
Vendor	0.12	0.06	1.97	0.91	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,427	1,427	0.06	0.20	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	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	36.5	36.5	< 0.005	< 0.005	< 0.005	—
Vendor	0.12	0.05	2.04	0.94	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,427	1,427	0.06	0.20	0.09	—
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	—
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	—	1.52	1.52	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	58.6	58.6	< 0.005	0.01	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.71	9.71	< 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	—

3.31. Trenching (2024) - 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	0.40	0.34	2.66	4.15	0.01	0.13	—	0.13	0.12	—	0.12	—	643	643	0.03	0.01	—	645
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.81	8.81	< 0.005	< 0.005	—	8.84
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.46	1.46	< 0.005	< 0.005	—	1.46
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.01	—
Vendor	0.28	0.13	4.73	2.17	0.02	0.04	0.83	0.88	0.04	0.23	0.27	—	3,313	3,313	0.14	0.46	0.22	—
Hauling	0.03	0.01	0.61	0.21	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	440	440	0.02	0.07	0.02	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.01	1.01	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.4	45.4	< 0.005	0.01	0.05	—
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.03	6.03	< 0.005	< 0.005	0.01	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.51	7.51	< 0.005	< 0.005	0.01	—
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.00	1.00	< 0.005	< 0.005	< 0.005	—

3.33. Trenching (2024) - 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	0.40	0.34	2.66	4.15	0.01	0.13	—	0.13	0.12	—	0.12	—	643	643	0.03	0.01	—	645

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.81	8.81	< 0.005	< 0.005	—	8.84
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.46	1.46	< 0.005	< 0.005	—	1.46
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.01	—
Vendor	0.28	0.13	4.73	2.17	0.02	0.04	0.83	0.88	0.04	0.23	0.27	—	3,313	3,313	0.14	0.46	0.22	—
Hauling	0.03	0.01	0.61	0.21	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	440	440	0.02	0.07	0.02	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.01	1.01	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.4	45.4	< 0.005	0.01	0.05	—
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.03	6.03	< 0.005	< 0.005	0.01	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.51	7.51	< 0.005	< 0.005	0.01	—
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.00	1.00	< 0.005	< 0.005	< 0.005	—

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
2. ESA Fencing; Clear & Grub; Mob	Site Preparation	1/1/2024	1/19/2024	5.00	15.0	—

4. Ground Impr Abut 1	Grading	1/22/2024	2/9/2024	5.00	15.0	—
6. Embankment Grading (Abut 1)	Grading	2/12/2024	2/16/2024	5.00	5.00	—
8. Ground Impr Abut 5	Grading	2/19/2024	3/8/2024	5.00	15.0	—
11. Embankment Grading (Abut 5)	Grading	3/11/2024	3/15/2024	5.00	5.00	—
1. General Construction	Building Construction	1/1/2024	11/28/2024	5.00	239	—
3. CIDH Piles (Pier 2, 3, 4)	Building Construction	1/22/2024	3/1/2024	5.00	30.0	—
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Building Construction	2/12/2024	3/22/2024	5.00	30.0	—
9. Cap Falsework (Pier 2, 3, 4)	Building Construction	2/26/2024	4/5/2024	5.00	30.0	—
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Building Construction	3/11/2024	4/26/2024	5.00	35.0	—
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Building Construction	4/1/2024	8/30/2024	5.00	110	—
14. Erect Precast Girders	Building Construction	6/10/2024	6/14/2024	5.00	5.00	—
15. Cure Deck, Strip Overhangs	Building Construction	9/2/2024	9/13/2024	5.00	10.0	—
16. Riprap (Abut 1 & 5)	Building Construction	9/2/2024	9/27/2024	5.00	20.0	—
17. Sidewalk Barrier Install, Deck Grind	Building Construction	9/16/2024	10/4/2024	5.00	15.0	—
7. Exc Abut 1	Trenching	2/19/2024	2/23/2024	5.00	5.00	—
12. Exc Abut 5	Trenching	3/18/2024	3/22/2024	5.00	5.00	—

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
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2. ESA Fencing; Clear & Grub; Mob	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
2. ESA Fencing; Clear & Grub; Mob	Graders	Diesel	Average	1.00	8.00	148	0.41
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
2. ESA Fencing; Clear & Grub; Mob	Scrapers	Diesel	Average	1.00	8.00	423	0.48
2. ESA Fencing; Clear & Grub; Mob	Other Construction Equipment	Diesel	Average	1.00	8.00	170	0.42
4. Ground Impr Abut 1	Cranes	Diesel	Average	1.00	10.0	360	0.29
4. Ground Impr Abut 1	Bore/Drill Rigs	Diesel	Average	1.00	10.0	300	0.50
4. Ground Impr Abut 1	Other Construction Equipment	Diesel	Average	1.00	10.0	450	0.42
4. Ground Impr Abut 1	Other Construction Equipment	Diesel	Average	1.00	10.0	350	0.42
4. Ground Impr Abut 1	Forklifts	Diesel	Average	1.00	10.0	125	0.20
4. Ground Impr Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	10.0	175	0.36
6. Embankment Grading (Abut 1)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
6. Embankment Grading (Abut 1)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
6. Embankment Grading (Abut 1)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
6. Embankment Grading (Abut 1)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
8. Ground Impr Abut 5	Cranes	Diesel	Average	1.00	10.0	360	0.29
8. Ground Impr Abut 5	Bore/Drill Rigs	Diesel	Average	1.00	10.0	300	0.50
8. Ground Impr Abut 5	Other Construction Equipment	Diesel	Average	1.00	10.0	450	0.42

8. Ground Impr Abut 5	Other Construction Equipment	Diesel	Average	1.00	10.0	350	0.42
8. Ground Impr Abut 5	Forklifts	Diesel	Average	1.00	10.0	125	0.20
8. Ground Impr Abut 5	Rubber Tired Loaders	Diesel	Average	1.00	10.0	175	0.36
11. Embankment Grading (Abut 5)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
11. Embankment Grading (Abut 5)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
11. Embankment Grading (Abut 5)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
11. Embankment Grading (Abut 5)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
1. General Construction	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
1. General Construction	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
1. General Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
1. General Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
1. General Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
1. General Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
3. CIDH Piles (Pier 2, 3, 4)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	500	0.50
3. CIDH Piles (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29
3. CIDH Piles (Pier 2, 3, 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
3. CIDH Piles (Pier 2, 3, 4)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29
9. Cap Falsework (Pier 2, 3, 4)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
9. Cap Falsework (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29

10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Cranes	Diesel	Average	1.00	8.00	367	0.29
14. Erect Precast Girders	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
14. Erect Precast Girders	Cranes	Diesel	Average	1.00	8.00	367	0.29
15. Cure Deck, Strip Overhangs	Cranes	Diesel	Average	1.00	8.00	367	0.29
16. Riprap (Abut 1 & 5)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
16. Riprap (Abut 1 & 5)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
17. Sidewalk Barrier Install, Deck Grind	Cranes	Diesel	Average	1.00	8.00	367	0.29
7. Exc Abut 1	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
7. Exc Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
12. Exc Abut 5	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
12. Exc Abut 5	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
2. ESA Fencing; Clear & Grub; Mob	—	—	—	—
2. ESA Fencing; Clear & Grub; Mob	Worker	16.0	12.0	LDA,LDT1,LDT2
2. ESA Fencing; Clear & Grub; Mob	Vendor	4.00	7.63	HHDT,MHDT
2. ESA Fencing; Clear & Grub; Mob	Hauling	8.00	20.0	HHDT
2. ESA Fencing; Clear & Grub; Mob	Onsite truck	—	—	HHDT

4. Ground Impr Abut 1	—	—	—	—
4. Ground Impr Abut 1	Worker	10.0	12.0	LDA,LDT1,LDT2
4. Ground Impr Abut 1	Vendor	6.00	7.63	HHDT,MHDT
4. Ground Impr Abut 1	Hauling	26.0	20.0	HHDT
4. Ground Impr Abut 1	Onsite truck	—	—	HHDT
6. Embankment Grading (Abut 1)	—	—	—	—
6. Embankment Grading (Abut 1)	Worker	12.0	12.0	LDA,LDT1,LDT2
6. Embankment Grading (Abut 1)	Vendor	4.00	7.63	HHDT,MHDT
6. Embankment Grading (Abut 1)	Hauling	4.00	20.0	HHDT
6. Embankment Grading (Abut 1)	Onsite truck	—	—	HHDT
8. Ground Impr Abut 5	—	—	—	—
8. Ground Impr Abut 5	Worker	10.0	12.0	LDA,LDT1,LDT2
8. Ground Impr Abut 5	Vendor	6.00	7.63	HHDT,MHDT
8. Ground Impr Abut 5	Hauling	26.0	20.0	HHDT
8. Ground Impr Abut 5	Onsite truck	—	—	HHDT
11. Embankment Grading (Abut 5)	—	—	—	—
11. Embankment Grading (Abut 5)	Worker	12.0	12.0	LDA,LDT1,LDT2
11. Embankment Grading (Abut 5)	Vendor	4.00	7.63	HHDT,MHDT
11. Embankment Grading (Abut 5)	Hauling	0.00	20.0	HHDT
11. Embankment Grading (Abut 5)	Onsite truck	—	—	HHDT
1. General Construction	—	—	—	—
1. General Construction	Worker	24.0	12.0	LDA,LDT1,LDT2
1. General Construction	Vendor	0.00	7.63	HHDT,MHDT
1. General Construction	Hauling	0.00	20.0	HHDT
1. General Construction	Onsite truck	—	—	HHDT
3. CIDH Piles (Pier 2, 3, 4)	—	—	—	—
3. CIDH Piles (Pier 2, 3, 4)	Worker	20.0	12.0	LDA,LDT1,LDT2

3. CIDH Piles (Pier 2, 3, 4)	Vendor	338	7.63	HHDT,MHDT
3. CIDH Piles (Pier 2, 3, 4)	Hauling	0.00	20.0	HHDT
3. CIDH Piles (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	—	—	—	—
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Worker	24.0	12.0	LDA,LDT1,LDT2
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Vendor	116	7.63	HHDT,MHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Hauling	0.00	20.0	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
9. Cap Falsework (Pier 2, 3, 4)	—	—	—	—
9. Cap Falsework (Pier 2, 3, 4)	Worker	24.0	12.0	LDA,LDT1,LDT2
9. Cap Falsework (Pier 2, 3, 4)	Vendor	0.00	7.63	HHDT,MHDT
9. Cap Falsework (Pier 2, 3, 4)	Hauling	0.00	20.0	HHDT
9. Cap Falsework (Pier 2, 3, 4)	Onsite truck	—	—	HHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	—	—	—	—
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Worker	24.0	12.0	LDA,LDT1,LDT2
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Vendor	116	7.63	HHDT,MHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Hauling	0.00	20.0	HHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	—	—	—	—
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Worker	24.0	12.0	LDA,LDT1,LDT2

13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Vendor	116	7.63	HHDT,MHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Hauling	0.00	20.0	HHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Onsite truck	0.00	0.00	HHDT
14. Erect Precast Girders	—	—	—	—
14. Erect Precast Girders	Worker	24.0	12.0	LDA,LDT1,LDT2
14. Erect Precast Girders	Vendor	0.00	7.63	HHDT,MHDT
14. Erect Precast Girders	Hauling	0.00	20.0	HHDT
14. Erect Precast Girders	Onsite truck	—	—	HHDT
15. Cure Deck, Strip Overhangs	—	—	—	—
15. Cure Deck, Strip Overhangs	Worker	4.00	12.0	LDA,LDT1,LDT2
15. Cure Deck, Strip Overhangs	Vendor	56.0	7.63	HHDT,MHDT
15. Cure Deck, Strip Overhangs	Hauling	0.00	20.0	HHDT
15. Cure Deck, Strip Overhangs	Onsite truck	0.00	0.00	HHDT
16. Riprap (Abut 1 & 5)	—	—	—	—
16. Riprap (Abut 1 & 5)	Worker	8.00	12.0	LDA,LDT1,LDT2
16. Riprap (Abut 1 & 5)	Vendor	0.00	7.63	HHDT,MHDT
16. Riprap (Abut 1 & 5)	Hauling	4.00	20.0	HHDT
16. Riprap (Abut 1 & 5)	Onsite truck	—	—	HHDT
17. Sidewalk Barrier Install, Deck Grind	—	—	—	—
17. Sidewalk Barrier Install, Deck Grind	Worker	4.00	12.0	LDA,LDT1,LDT2
17. Sidewalk Barrier Install, Deck Grind	Vendor	56.0	7.63	HHDT,MHDT
17. Sidewalk Barrier Install, Deck Grind	Hauling	0.00	20.0	HHDT
17. Sidewalk Barrier Install, Deck Grind	Onsite truck	0.00	0.00	HHDT
7. Exc Abut 1	—	—	—	—
7. Exc Abut 1	Worker	8.00	12.0	LDA,LDT1,LDT2
7. Exc Abut 1	Vendor	130	7.63	HHDT,MHDT

7. Exc Abut 1	Hauling	6.00	20.0	HHDT
7. Exc Abut 1	Onsite truck	0.00	0.00	HHDT
12. Exc Abut 5	—	—	—	—
12. Exc Abut 5	Worker	8.00	12.0	LDA,LDT1,LDT2
12. Exc Abut 5	Vendor	130	7.63	HHDT,MHDT
12. Exc Abut 5	Hauling	6.00	20.0	HHDT
12. Exc Abut 5	Onsite truck	0.00	0.00	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)
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
2. ESA Fencing; Clear & Grub; Mob	—	—	30.0	0.00	—
4. Ground Impr Abut 1	—	500	0.00	0.00	—
6. Embankment Grading (Abut 1)	—	—	2.50	0.00	—
8. Ground Impr Abut 5	—	500	0.00	0.00	—
11. Embankment Grading (Abut 5)	—	—	2.50	0.00	—

7. Exc Abut 1	1,500	1,500	0.00	0.00	—
12. Exc Abut 5	1,500	1,500	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Industrial	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	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
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5
Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	64.5
Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2

Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396
Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—
Auto Access	26.42114718
Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251

Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537
Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2
Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6
Life Expectancy at Birth	51.7
Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—

Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—
Wildfire Risk	57.5
SLR Inundation Area	0.0
Children	87.0
Elderly	73.1
English Speaking	54.0
Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—
Hardship	21.0
Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	Project footprint estimated to be approx 1.5 acres.
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Off-Road Equipment	Construction assumptions provided by project engineers.
Construction: Dust From Material Movement	Construction assumptions provided by project engineers.
Construction: Trips and VMT	Construction assumptions provided by project engineers.

Fenton Construction Phase 2 Detailed Report

Off-Site Improvements

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton Construction Phase 2
Construction Start Date	10/7/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.16

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
Road Construction	0.10	Mile	0.15	0.00	—	—	—	—

Other Non-Asphalt Surfaces	0.15	Acre	0.15	0.00	0.00	—	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.08	3.78	47.3	37.3	0.13	1.63	6.40	8.03	1.51	1.21	2.72	—	18,241	18,241	0.90	1.90	0.67	18,831
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.30	0.24	2.55	2.25	0.01	0.10	0.31	0.40	0.09	0.05	0.14	—	823	823	0.04	0.07	0.40	844
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.04	0.47	0.41	< 0.005	0.02	0.06	0.07	0.02	0.01	0.03	—	136	136	0.01	0.01	0.07	140

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	5.08	3.78	47.3	37.3	0.13	1.63	6.40	8.03	1.51	1.21	2.72	—	18,241	18,241	0.90	1.90	0.67	18,831
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.30	0.24	2.55	2.25	0.01	0.10	0.31	0.40	0.09	0.05	0.14	—	823	823	0.04	0.07	0.40	844
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.05	0.04	0.47	0.41	< 0.005	0.02	0.06	0.07	0.02	0.01	0.03	—	136	136	0.01	0.01	0.07	140

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2024) - 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	0.51	0.43	3.69	3.52	< 0.005	0.24	—	0.24	0.23	—	0.23	—	491	491	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.72	6.72	< 0.005	< 0.005	—	6.74
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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.11	1.11	< 0.005	< 0.005	—	1.12
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.26	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	54.8	54.8	< 0.005	< 0.005	0.01	—
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	—
Hauling	0.04	0.01	0.65	0.23	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	470	470	0.03	0.08	0.03	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	—
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.43	6.43	< 0.005	< 0.005	0.01	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	—
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	—
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.06	1.06	< 0.005	< 0.005	< 0.005	—

3.3. Linear, Grading & Excavation (2024) - 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	4.07	3.42	31.2	30.4	0.06	1.42	—	1.42	1.31	—	1.31	—	6,495	6,495	0.26	0.05	—	6,518
Dust From Material Movement:	—	—	—	—	—	—	3.25	3.25	—	0.35	0.35	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.94	0.92	< 0.005	0.04	—	0.04	0.04	—	0.04	—	196	196	0.01	< 0.005	—	196
Dust From Material Movement:	—	—	—	—	—	—	0.10	0.10	—	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.17	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.4	32.4	< 0.005	< 0.005	—	32.5
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.11	1.30	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	274	274	0.01	0.01	0.03	—
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.5	25.5	< 0.005	< 0.005	< 0.005	—
Hauling	0.86	0.23	15.9	5.55	0.07	0.21	2.89	3.10	0.21	0.79	1.00	—	11,447	11,447	0.62	1.83	0.64	—
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	—	8.33	8.33	< 0.005	< 0.005	0.02	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	—
Hauling	0.03	0.01	0.48	0.17	< 0.005	0.01	0.09	0.09	0.01	0.02	0.03	—	345	345	0.02	0.06	0.32	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	—
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	—
Hauling	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.1	57.1	< 0.005	0.01	0.05	—

3.5. Linear, Drainage, Utilities, & Sub-Grade (2024) - 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	3.27	2.74	26.3	24.6	0.05	1.07	—	1.07	0.98	—	0.98	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	2.66	2.66	—	0.29	0.29	—	—	—	—	—	—	—
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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.87	0.81	< 0.005	0.04	—	0.04	0.03	—	0.03	—	187	187	0.01	< 0.005	—	188
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.0	31.0	< 0.005	< 0.005	—	31.1
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	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.10	1.13	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	238	238	0.01	0.01	0.03	—
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	—
Hauling	0.07	0.02	1.23	0.43	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	881	881	0.05	0.14	0.05	—
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	—	7.88	7.88	< 0.005	< 0.005	0.01	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.68	1.68	< 0.005	< 0.005	< 0.005	—
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.9	28.9	< 0.005	< 0.005	0.03	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	—
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	—
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.79	4.79	< 0.005	< 0.005	< 0.005	—

3.7. Linear, Paving (2024) - 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	1.14	0.96	8.15	10.9	0.01	0.39	—	0.39	0.36	—	0.36	—	1,620	1,620	0.07	0.01	—	1,626

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	0.13	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.6	26.6	< 0.005	< 0.005	—	26.7	
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	—	4.41	4.41	< 0.005	< 0.005	—	4.42	
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	0.07	0.76	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	160	160	0.01	0.01	0.02	—	
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	—	
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	—	
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	—	2.65	2.65	< 0.005	< 0.005	< 0.005	—	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	—	
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	—	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	—	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	—	
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	—	

3.9. Architectural Coating (2024) - 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	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	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	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	—	< 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	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 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	—	0.30
Architectural Coatings	—	< 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	0.03	0.02	0.02	0.26	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	54.8	54.8	< 0.005	< 0.005	0.01	—	
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	—	
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	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	—	
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	—	
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	—	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	—	
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	—	
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	—	

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	10/7/2024	10/11/2024	5.00	5.00	—
Linear, Grading & Excavation	Linear, Grading & Excavation	10/12/2024	10/28/2024	5.00	11.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	10/29/2024	11/13/2024	5.00	12.0	—
Linear, Paving	Linear, Paving	11/14/2024	11/21/2024	5.00	6.00	—
Architectural Coating	Architectural Coating	11/22/2024	11/28/2024	5.00	5.00	—

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
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, Grubbing & Land Clearing	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43

Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	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	2.00	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	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	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	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	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	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Architectural Coating	—	—	—	—
Architectural Coating	Worker	6.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	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	6.40	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	30.0	12.0	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	1.00	7.63	HHDT,MHDT
Linear, Grading & Excavation	Hauling	156	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	12.0	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	17.5	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

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	0.00	0.00	0.00	0.00	392

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)
Linear, Grubbing & Land Clearing	—	250	0.15	0.00	—
Linear, Grading & Excavation	13,400	200	0.15	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	1,036	—	0.15	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	0.15	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	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
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5
Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	64.5
Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2
Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396
Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—
Auto Access	26.42114718
Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251
Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537

Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2
Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6
Life Expectancy at Birth	51.7
Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—

Wildfire Risk	57.5
SLR Inundation Area	0.0
Children	87.0
Elderly	73.1
English Speaking	54.0
Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—
Hardship	21.0
Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Trips and VMT	Workers included for architectural coating phase.
Construction: Paving	Paving only required once.

Fenton Construction Phase 1_HRA Detailed Report

Bridge Construction

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3.32. 7. Exc Abut 1 (2024) - Mitigated

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3.34. 12. Exc Abut 5 (2024) - Mitigated

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5.3.1. Unmitigated

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5.18.1.2. Mitigated

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5.18.1.1. Unmitigated

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton Construction Phase 1_HRA
Construction Start Date	1/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.21

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
User Defined Industrial	0.20	User Defined Unit	1.50	0.00	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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.	3.30	2.72	27.3	23.9	0.05	0.97	0.04	1.01	0.89	0.01	0.90	—	5,842	5,842	0.29	0.10	0.38	5,881
Mit.	1.18	1.03	10.5	31.0	0.05	0.23	0.04	0.27	0.22	0.01	0.23	—	5,842	5,842	0.29	0.10	0.38	5,881
% Reduced	64%	62%	61%	-30%	—	77%	—	74%	76%	—	75%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.54	6.22	60.5	55.4	0.16	2.15	8.15	9.84	1.98	3.54	5.10	—	17,296	17,296	0.82	0.29	0.03	17,395
Mit.	2.82	2.46	23.1	89.3	0.16	0.53	8.15	8.40	0.51	3.54	3.79	—	17,296	17,296	0.82	0.29	0.03	17,395
% Reduced	63%	60%	62%	-61%	—	75%	—	15%	74%	—	26%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.01	1.66	15.7	14.2	0.03	0.58	0.53	1.11	0.54	0.24	0.78	—	3,517	3,517	0.16	0.05	0.07	3,536
Mit.	0.74	0.65	6.48	18.8	0.03	0.15	0.53	0.68	0.14	0.24	0.39	—	3,517	3,517	0.16	0.05	0.07	3,536
% Reduced	63%	61%	59%	-33%	—	74%	—	39%	73%	—	50%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.37	0.30	2.87	2.59	0.01	0.11	0.10	0.20	0.10	0.04	0.14	—	582	582	0.03	0.01	0.01	585
Mit.	0.13	0.12	1.18	3.44	0.01	0.03	0.10	0.12	0.03	0.04	0.07	—	582	582	0.03	0.01	0.01	585
% Reduced	63%	61%	59%	-33%	—	74%	—	39%	73%	—	50%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.30	2.72	27.3	23.9	0.05	0.97	0.04	1.01	0.89	0.01	0.90	—	5,842	5,842	0.29	0.10	0.38	5,881
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	7.54	6.22	60.5	55.4	0.16	2.15	8.15	9.84	1.98	3.54	5.10	—	17,296	17,296	0.82	0.29	0.03	17,395
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.01	1.66	15.7	14.2	0.03	0.58	0.53	1.11	0.54	0.24	0.78	—	3,517	3,517	0.16	0.05	0.07	3,536
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.37	0.30	2.87	2.59	0.01	0.11	0.10	0.20	0.10	0.04	0.14	—	582	582	0.03	0.01	0.01	585

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2024	1.18	1.03	10.5	31.0	0.05	0.23	0.04	0.27	0.22	0.01	0.23	—	5,842	5,842	0.29	0.10	0.38	5,881
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.82	2.46	23.1	89.3	0.16	0.53	8.15	8.40	0.51	3.54	3.79	—	17,296	17,296	0.82	0.29	0.03	17,395
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.74	0.65	6.48	18.8	0.03	0.15	0.53	0.68	0.14	0.24	0.39	—	3,517	3,517	0.16	0.05	0.07	3,536
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.13	0.12	1.18	3.44	0.01	0.03	0.10	0.12	0.03	0.04	0.07	—	582	582	0.03	0.01	0.01	585

3. Construction Emissions Details

3.1. 2. ESA Fencing; Clear & Grub; Mob (2024) - 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	3.49	2.93	27.8	26.3	0.05	1.26	—	1.26	1.16	—	1.16	—	5,145	5,145	0.21	0.04	—	5,162
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
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	0.12	1.14	1.08	< 0.005	0.05	—	0.05	0.05	—	0.05	—	211	211	0.01	< 0.005	—	212
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.15	0.15	—	—	—	—	—	—	—
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	0.21	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	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
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	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26
Hauling	0.01	0.01	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.7	19.7	< 0.005	< 0.005	< 0.005	20.7
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	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.30

Hauling	< 0.005	< 0.005	0.01	< 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	0.85
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	< 0.005	< 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

3.2. 2. ESA Fencing; Clear & Grub; Mob (2024) - 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	0.49	0.49	3.12	29.2	0.05	0.10	—	0.10	0.10	—	0.10	—	5,145	5,145	0.21	0.04	—	5,162
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
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	0.13	1.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	211	211	0.01	< 0.005	—	212
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.15	0.15	—	—	—	—	—	—	—

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	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	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
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	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26
Hauling	0.01	0.01	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.7	19.7	< 0.005	< 0.005	< 0.005	20.7
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	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.30
Hauling	< 0.005	< 0.005	0.01	< 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	0.85
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	< 0.005	< 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

3.3. 4. Ground Impr Abut 1 (2024) - 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	2.87	2.41	22.5	20.2	0.07	0.86	—	0.86	0.79	—	0.79	—	7,877	7,877	0.32	0.06	—	7,904
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.93	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	324	324	0.01	< 0.005	—	325
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.6	53.6	< 0.005	< 0.005	—	53.8

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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	10.9
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	63.9	63.9	0.01	0.01	< 0.005	67.3
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	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.61	2.61	< 0.005	< 0.005	< 0.005	2.75
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.46

3.4. 4. Ground Impr Abut 1 (2024) - 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	0.75	0.75	3.89	39.5	0.07	0.15	—	0.15	0.15	—	0.15	—	7,877	7,877	0.32	0.06	—	7,904
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.16	1.62	< 0.005	0.01	—	0.01	0.01	—	0.01	—	324	324	0.01	< 0.005	—	325
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.6	53.6	< 0.005	< 0.005	—	53.8
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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	10.9
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	63.9	63.9	0.01	0.01	< 0.005	67.3
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	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.61	2.61	< 0.005	< 0.005	< 0.005	2.75
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.46

3.5. 6. Embankment Grading (Abut 1) (2024) - 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	1.84	1.54	14.0	13.6	0.02	0.63	—	0.63	0.58	—	0.58	—	2,162	2,162	0.09	0.02	—	2,170

Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.19	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.90	4.90	< 0.005	< 0.005	—	4.92
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26
Hauling	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.83	9.83	< 0.005	< 0.005	< 0.005	10.3

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	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
Hauling	< 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
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	< 0.005	< 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

3.6. 6. Embankment Grading (Abut 1) (2024) - 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	0.22	0.22	2.25	12.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,162	2,162	0.09	0.02	—	2,170
Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.03	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7

Dust From Material Movement:	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.90	4.90	< 0.005	< 0.005	—	4.92
Dust From Material Movement:	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26
Hauling	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.83	9.83	< 0.005	< 0.005	< 0.005	10.3
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	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
Hauling	< 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
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	< 0.005	< 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
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3.7. 8. Ground Impr Abut 5 (2024) - 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	2.87	2.41	22.5	20.2	0.07	0.86	—	0.86	0.79	—	0.79	—	7,877	7,877	0.32	0.06	—	7,904
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.93	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	324	324	0.01	< 0.005	—	325
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	53.6	53.6	< 0.005	< 0.005	—	53.8

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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	10.9
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	63.9	63.9	0.01	0.01	< 0.005	67.3
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	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.61	2.61	< 0.005	< 0.005	< 0.005	2.75
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.46

3.8. 8. Ground Impr Abut 5 (2024) - 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	0.75	0.75	3.89	39.5	0.07	0.15	—	0.15	0.15	—	0.15	—	7,877	7,877	0.32	0.06	—	7,904
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.16	1.62	< 0.005	0.01	—	0.01	0.01	—	0.01	—	324	324	0.01	< 0.005	—	325
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.6	53.6	< 0.005	< 0.005	—	53.8
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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	10.9
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	63.9	63.9	0.01	0.01	< 0.005	67.3
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	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.61	2.61	< 0.005	< 0.005	< 0.005	2.75
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.46

3.9. 11. Embankment Grading (Abut 5) (2024) - 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	1.84	1.54	14.0	13.6	0.02	0.63	—	0.63	0.58	—	0.58	—	2,162	2,162	0.09	0.02	—	2,170

Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.19	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.90	4.90	< 0.005	< 0.005	—	4.92
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26
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	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
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

3.10. 11. Embankment Grading (Abut 5) (2024) - 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	0.22	0.22	2.25	12.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,162	2,162	0.09	0.02	—	2,170
Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.03	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7

Dust From Material Movement:	—	—	—	—	—	—	0.09	0.09	—	0.05	0.05	—	—	—	—	—	—	—
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.90	4.90	< 0.005	< 0.005	—	4.92
Dust From Material Movement:	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.92	6.92	< 0.005	< 0.005	< 0.005	7.26
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	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
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	0.00
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3.11. 1. General Construction (2024) - 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	1.56	1.29	11.3	10.3	0.02	0.43	—	0.43	0.40	—	0.40	—	2,091	2,091	0.08	0.02	—	2,098
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	1.56	1.29	11.3	10.3	0.02	0.43	—	0.43	0.40	—	0.40	—	2,091	2,091	0.08	0.02	—	2,098
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	1.02	0.85	7.40	6.73	0.01	0.28	—	0.28	0.26	—	0.26	—	1,369	1,369	0.06	0.01	—	1,374
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	0.19	0.15	1.35	1.23	< 0.005	0.05	—	0.05	0.05	—	0.05	—	227	227	0.01	< 0.005	—	227
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 1. General Construction (2024) - 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	0.67	0.59	6.32	11.9	0.02	0.16	—	0.16	0.15	—	0.15	—	2,091	2,091	0.08	0.02	—	2,098
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	0.67	0.59	6.32	11.9	0.02	0.16	—	0.16	0.15	—	0.15	—	2,091	2,091	0.08	0.02	—	2,098
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	0.44	0.39	4.14	7.77	0.01	0.11	—	0.11	0.10	—	0.10	—	1,369	1,369	0.06	0.01	—	1,374
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	0.08	0.07	0.75	1.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	227	227	0.01	< 0.005	—	227
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 3. CIDH Piles (Pier 2, 3, 4) (2024) - 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	1.63	1.37	11.6	12.2	0.04	0.48	—	0.48	0.44	—	0.44	—	4,106	4,106	0.17	0.03	—	4,120
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	0.11	0.95	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	—	337	337	0.01	< 0.005	—	339

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	0.17	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	55.9	55.9	< 0.005	< 0.005	—	56.1
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	0.27	0.16	3.86	2.76	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	585	585	0.10	0.09	0.01	614
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	0.02	0.01	0.31	0.22	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	47.9	47.9	0.01	0.01	0.02	50.3
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
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	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.93	7.93	< 0.005	< 0.005	< 0.005	8.32
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. 3. CIDH Piles (Pier 2, 3, 4) (2024) - 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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.66	4.28	21.4	0.04	0.17	—	0.17	0.16	—	0.16	—	4,106	4,106	0.17	0.03	—	4,120
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	0.06	0.05	0.35	1.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	337	337	0.01	< 0.005	—	339
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	0.06	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	55.9	55.9	< 0.005	< 0.005	—	56.1
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	0.27	0.16	3.86	2.76	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	585	585	0.10	0.09	0.01	614
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	0.02	0.01	0.31	0.22	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	47.9	47.9	0.01	0.01	0.02	50.3
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
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	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.93	7.93	< 0.005	< 0.005	< 0.005	8.32
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. 5. Column Form, Rebar, Pour (Pier 2, 3, 4) (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	0.04	0.03	0.33	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.4	81.4	< 0.005	< 0.005	—	81.7
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	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	13.5	< 0.005	< 0.005	—	13.5
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
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	0.09	0.06	1.32	0.95	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	201	201	0.03	0.03	< 0.005	211
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	—	16.4	16.4	< 0.005	< 0.005	0.01	17.2
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.72	2.72	< 0.005	< 0.005	< 0.005	2.86
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. 5. Column Form, Rebar, Pour (Pier 2, 3, 4) (2024) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	81.4	81.4	< 0.005	< 0.005	—	81.7
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	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	13.5	< 0.005	< 0.005	—	13.5
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
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	0.09	0.06	1.32	0.95	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	201	201	0.03	0.03	< 0.005	211
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	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	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	17.2
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	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	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	< 0.005	—	2.72	2.72	< 0.005	< 0.005	< 0.005	2.86
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	0.00

3.17. 9. Cap Falsework (Pier 2, 3, 4) (2024) - 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	0.61	0.52	5.43	5.55	0.01	0.21	—	0.21	0.20	—	0.20	—	1,372	1,372	0.06	0.01	—	1,377	
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.52	5.43	5.55	0.01	0.21	—	0.21	0.20	—	0.20	—	1,372	1,372	0.06	0.01	—	1,377	
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.45	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	113	113	< 0.005	< 0.005	—	113	

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	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.7
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 9. Cap Falsework (Pier 2, 3, 4) (2024) - 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	0.13	0.13	0.68	7.59	0.01	0.03	—	0.03	0.03	—	0.03	—	1,372	1,372	0.06	0.01	—	1,377
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	0.13	0.13	0.68	7.59	0.01	0.03	—	0.03	0.03	—	0.03	—	1,372	1,372	0.06	0.01	—	1,377
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	0.06	0.62	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	113	113	< 0.005	< 0.005	—	113
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	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	18.7
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 10. Cap Form, Rebar, Pour (Pier 2, 3, 4) (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	0.38	0.30	< 0.005	0.02	—	0.02	0.01	—	0.01	—	95.0	95.0	< 0.005	< 0.005	—	95.3
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	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.7	15.7	< 0.005	< 0.005	—	15.8
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	0.10	0.06	1.28	0.89	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	199	199	0.03	0.03	0.19	209
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	0.09	0.06	1.32	0.95	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	201	201	0.03	0.03	< 0.005	211
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	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.2	19.2	< 0.005	< 0.005	0.01	20.1
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	0.00	0.00	0.00	0.00	0.00	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	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.33
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. 10. Cap Form, Rebar, Pour (Pier 2, 3, 4) (2024) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.05	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.0	95.0	< 0.005	< 0.005	—	95.3
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	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.7	15.7	< 0.005	< 0.005	—	15.8
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	0.10	0.06	1.28	0.89	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	199	199	0.03	0.03	0.19	209
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	0.09	0.06	1.32	0.95	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	201	201	0.03	0.03	< 0.005	211
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	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.2	19.2	< 0.005	< 0.005	0.01	20.1
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	0.00	0.00	0.00	0.00	0.00	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	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.33
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. 13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck) (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.21	0.95	< 0.005	0.05	—	0.05	0.04	—	0.04	—	298	298	0.01	< 0.005	—	299
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	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.4	49.4	< 0.005	< 0.005	—	49.6
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.10	0.06	1.28	0.89	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	199	199	0.03	0.03	0.19	209
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.03	0.02	0.39	0.28	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	60.3	60.3	0.01	0.01	0.02	63.2
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	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.98	9.98	< 0.005	< 0.005	< 0.005	10.5
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

3.22. 13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck) (2024) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.15	1.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	298	298	0.01	< 0.005	—	299
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	0.03	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	49.4	49.4	< 0.005	< 0.005	—	49.6
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.10	0.06	1.28	0.89	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	199	199	0.03	0.03	0.19	209
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.03	0.02	0.39	0.28	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	60.3	60.3	0.01	0.01	0.02	63.2
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	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.98	9.98	< 0.005	< 0.005	< 0.005	10.5
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

3.23. 14. Erect Precast Girders (2024) - 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	0.61	0.52	5.43	5.55	0.01	0.21	—	0.21	0.20	—	0.20	—	1,372	1,372	0.06	0.01	—	1,377
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.9
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.11	3.11	< 0.005	< 0.005	—	3.12
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 14. Erect Precast Girders (2024) - 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	0.13	0.13	0.68	7.59	0.01	0.03	—	0.03	0.03	—	0.03	—	1,372	1,372	0.06	0.01	—	1,377
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.9

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.11	3.11	< 0.005	< 0.005	—	3.12
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 15. Cure Deck, Strip Overhangs (2024) - 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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.1	27.1	< 0.005	< 0.005	—	27.2
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	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.49	4.49	< 0.005	< 0.005	—	4.51
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	0.05	0.03	0.62	0.43	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	96.2	96.2	0.02	0.01	0.09	101
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.78
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	—	0.44	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

3.26. 15. Cure Deck, Strip Overhangs (2024) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.1	27.1	< 0.005	< 0.005	—	27.2
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	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.49	4.49	< 0.005	< 0.005	—	4.51
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	0.05	0.03	0.62	0.43	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	96.2	96.2	0.02	0.01	0.09	101
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.64	2.64	< 0.005	< 0.005	< 0.005	2.78
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	—	0.44	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

3.27. 16. Riprap (Abut 1 & 5) (2024) - 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	0.40	0.34	2.66	4.15	0.01	0.13	—	0.13	0.12	—	0.12	—	643	643	0.03	0.01	—	645
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.2	35.2	< 0.005	< 0.005	—	35.4
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	—	5.83	5.83	< 0.005	< 0.005	—	5.85
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.73	9.73	< 0.005	< 0.005	0.01	10.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.56
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09

3.28. 16. Riprap (Abut 1 & 5) (2024) - 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	0.07	0.07	0.91	4.51	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.2	35.2	< 0.005	< 0.005	—	35.4
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	—	5.83	5.83	< 0.005	< 0.005	—	5.85

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.73	9.73	< 0.005	< 0.005	0.01	10.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.56
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09

3.29. 17. Sidewalk Barrier Install, Deck Grind (2024) - 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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	0.47	0.39	4.00	3.15	0.01	0.16	—	0.16	0.15	—	0.15	—	990	990	0.04	0.01	—	994
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	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8
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	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.74	6.74	< 0.005	< 0.005	—	6.76
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	0.05	0.03	0.62	0.43	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	96.2	96.2	0.02	0.01	0.09	101
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	0.05	0.03	0.64	0.46	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	96.9	96.9	0.02	0.01	< 0.005	102
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	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.97	3.97	< 0.005	< 0.005	< 0.005	4.16
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	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.69
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

3.30. 17. Sidewalk Barrier Install, Deck Grind (2024) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.7	40.7	< 0.005	< 0.005	—	40.8
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	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.74	6.74	< 0.005	< 0.005	—	6.76
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	0.05	0.03	0.62	0.43	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	96.2	96.2	0.02	0.01	0.09	101
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	0.05	0.03	0.64	0.46	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	96.9	96.9	0.02	0.01	< 0.005	102
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	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.97	3.97	< 0.005	< 0.005	< 0.005	4.16
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	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.69
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

3.31. 7. Exc Abut 1 (2024) - 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	0.40	0.34	2.66	4.15	0.01	0.13	—	0.13	0.12	—	0.12	—	643	643	0.03	0.01	—	645
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.81	8.81	< 0.005	< 0.005	—	8.84
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.46	1.46	< 0.005	< 0.005	—	1.46
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	0.10	0.06	1.48	1.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	225	225	0.04	0.03	0.01	236
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	< 0.005	15.5
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.07	3.07	< 0.005	< 0.005	< 0.005	3.22
Hauling	< 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
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	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 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

3.32. 7. Exc Abut 1 (2024) - 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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.91	4.51	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.81	8.81	< 0.005	< 0.005	—	8.84
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.46	1.46	< 0.005	< 0.005	—	1.46
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	0.10	0.06	1.48	1.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	225	225	0.04	0.03	0.01	236
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	< 0.005	15.5
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.07	3.07	< 0.005	< 0.005	< 0.005	3.22
Hauling	< 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
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	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 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

3.33. 12. Exc Abut 5 (2024) - 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	0.40	0.34	2.66	4.15	0.01	0.13	—	0.13	0.12	—	0.12	—	643	643	0.03	0.01	—	645

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.81	8.81	< 0.005	< 0.005	—	8.84
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.46	1.46	< 0.005	< 0.005	—	1.46
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	0.10	0.06	1.48	1.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	225	225	0.04	0.03	0.01	236
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	< 0.005	15.5

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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.07	3.07	< 0.005	< 0.005	< 0.005	3.22
Hauling	< 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
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	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Hauling	< 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

3.34. 12. Exc Abut 5 (2024) - 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	0.07	0.07	0.91	4.51	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.81	8.81	< 0.005	< 0.005	—	8.84

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.46	1.46	< 0.005	< 0.005	—	1.46
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	0.10	0.06	1.48	1.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	225	225	0.04	0.03	0.01	236
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	< 0.005	15.5
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.07	3.07	< 0.005	< 0.005	< 0.005	3.22
Hauling	< 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
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	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53

Hauling	< 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
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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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
2. ESA Fencing; Clear & Grub; Mob	Site Preparation	1/1/2024	1/19/2024	5.00	15.0	—

4. Ground Impr Abut 1	Grading	1/22/2024	2/9/2024	5.00	15.0	—
6. Embankment Grading (Abut 1)	Grading	2/12/2024	2/16/2024	5.00	5.00	—
8. Ground Impr Abut 5	Grading	2/19/2024	3/8/2024	5.00	15.0	—
11. Embankment Grading (Abut 5)	Grading	3/11/2024	3/15/2024	5.00	5.00	—
1. General Construction	Building Construction	1/1/2024	11/28/2024	5.00	239	—
3. CIDH Piles (Pier 2, 3, 4)	Building Construction	1/22/2024	3/1/2024	5.00	30.0	—
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Building Construction	2/12/2024	3/22/2024	5.00	30.0	—
9. Cap Falsework (Pier 2, 3, 4)	Building Construction	2/26/2024	4/5/2024	5.00	30.0	—
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Building Construction	3/11/2024	4/26/2024	5.00	35.0	—
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Building Construction	4/1/2024	8/30/2024	5.00	110	—
14. Erect Precast Girders	Building Construction	6/10/2024	6/14/2024	5.00	5.00	—
15. Cure Deck, Strip Overhangs	Building Construction	9/2/2024	9/13/2024	5.00	10.0	—
16. Riprap (Abut 1 & 5)	Building Construction	9/2/2024	9/27/2024	5.00	20.0	—
17. Sidewalk Barrier Install, Deck Grind	Building Construction	9/16/2024	10/4/2024	5.00	15.0	—
7. Exc Abut 1	Trenching	2/19/2024	2/23/2024	5.00	5.00	—
12. Exc Abut 5	Trenching	3/18/2024	3/22/2024	5.00	5.00	—

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
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2. ESA Fencing; Clear & Grub; Mob	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
2. ESA Fencing; Clear & Grub; Mob	Graders	Diesel	Average	1.00	8.00	148	0.41
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
2. ESA Fencing; Clear & Grub; Mob	Scrapers	Diesel	Average	1.00	8.00	423	0.48
2. ESA Fencing; Clear & Grub; Mob	Other Construction Equipment	Diesel	Average	1.00	8.00	170	0.42
4. Ground Impr Abut 1	Cranes	Diesel	Average	1.00	10.0	360	0.29
4. Ground Impr Abut 1	Bore/Drill Rigs	Diesel	Average	1.00	10.0	300	0.50
4. Ground Impr Abut 1	Other Construction Equipment	Diesel	Average	1.00	10.0	450	0.42
4. Ground Impr Abut 1	Other Construction Equipment	Diesel	Average	1.00	10.0	350	0.42
4. Ground Impr Abut 1	Forklifts	Diesel	Average	1.00	10.0	125	0.20
4. Ground Impr Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	10.0	175	0.36
6. Embankment Grading (Abut 1)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
6. Embankment Grading (Abut 1)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
6. Embankment Grading (Abut 1)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
6. Embankment Grading (Abut 1)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
8. Ground Impr Abut 5	Cranes	Diesel	Average	1.00	10.0	360	0.29
8. Ground Impr Abut 5	Bore/Drill Rigs	Diesel	Average	1.00	10.0	300	0.50
8. Ground Impr Abut 5	Other Construction Equipment	Diesel	Average	1.00	10.0	450	0.42

8. Ground Impr Abut 5	Other Construction Equipment	Diesel	Average	1.00	10.0	350	0.42
8. Ground Impr Abut 5	Forklifts	Diesel	Average	1.00	10.0	125	0.20
8. Ground Impr Abut 5	Rubber Tired Loaders	Diesel	Average	1.00	10.0	175	0.36
11. Embankment Grading (Abut 5)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
11. Embankment Grading (Abut 5)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
11. Embankment Grading (Abut 5)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
11. Embankment Grading (Abut 5)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
1. General Construction	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
1. General Construction	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
1. General Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
1. General Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
1. General Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
1. General Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
3. CIDH Piles (Pier 2, 3, 4)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	500	0.50
3. CIDH Piles (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29
3. CIDH Piles (Pier 2, 3, 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
3. CIDH Piles (Pier 2, 3, 4)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29
9. Cap Falsework (Pier 2, 3, 4)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
9. Cap Falsework (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29

10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Cranes	Diesel	Average	1.00	8.00	367	0.29
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Cranes	Diesel	Average	1.00	8.00	367	0.29
14. Erect Precast Girders	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
14. Erect Precast Girders	Cranes	Diesel	Average	1.00	8.00	367	0.29
15. Cure Deck, Strip Overhangs	Cranes	Diesel	Average	1.00	8.00	367	0.29
16. Riprap (Abut 1 & 5)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
16. Riprap (Abut 1 & 5)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
17. Sidewalk Barrier Install, Deck Grind	Cranes	Diesel	Average	1.00	8.00	367	0.29
7. Exc Abut 1	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
7. Exc Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
12. Exc Abut 5	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
12. Exc Abut 5	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
2. ESA Fencing; Clear & Grub; Mob	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
2. ESA Fencing; Clear & Grub; Mob	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40

2. ESA Fencing; Clear & Grub; Mob	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
2. ESA Fencing; Clear & Grub; Mob	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	170	0.42
4. Ground Impr Abut 1	Cranes	Diesel	Tier 4 Final	1.00	10.0	360	0.29
4. Ground Impr Abut 1	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	300	0.50
4. Ground Impr Abut 1	Other Construction Equipment	Diesel	Tier 4 Final	1.00	10.0	450	0.42
4. Ground Impr Abut 1	Other Construction Equipment	Diesel	Tier 4 Final	1.00	10.0	350	0.42
4. Ground Impr Abut 1	Forklifts	Diesel	Tier 4 Final	1.00	10.0	125	0.20
4. Ground Impr Abut 1	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	175	0.36
6. Embankment Grading (Abut 1)	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
6. Embankment Grading (Abut 1)	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
6. Embankment Grading (Abut 1)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
6. Embankment Grading (Abut 1)	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
8. Ground Impr Abut 5	Cranes	Diesel	Tier 4 Final	1.00	10.0	360	0.29
8. Ground Impr Abut 5	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	300	0.50
8. Ground Impr Abut 5	Other Construction Equipment	Diesel	Tier 4 Final	1.00	10.0	450	0.42
8. Ground Impr Abut 5	Other Construction Equipment	Diesel	Tier 4 Final	1.00	10.0	350	0.42
8. Ground Impr Abut 5	Forklifts	Diesel	Tier 4 Final	1.00	10.0	125	0.20
8. Ground Impr Abut 5	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	175	0.36
11. Embankment Grading (Abut 5)	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
11. Embankment Grading (Abut 5)	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40

11. Embankment Grading (Abut 5)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
11. Embankment Grading (Abut 5)	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
1. General Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
1. General Construction	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
1. General Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
1. General Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
1. General Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
1. General Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
3. CIDH Piles (Pier 2, 3, 4)	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	500	0.50
3. CIDH Piles (Pier 2, 3, 4)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
3. CIDH Piles (Pier 2, 3, 4)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
3. CIDH Piles (Pier 2, 3, 4)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
9. Cap Falsework (Pier 2, 3, 4)	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
9. Cap Falsework (Pier 2, 3, 4)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
14. Erect Precast Girders	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50

14. Erect Precast Girders	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
15. Cure Deck, Strip Overhangs	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
16. Riprap (Abut 1 & 5)	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
16. Riprap (Abut 1 & 5)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
17. Sidewalk Barrier Install, Deck Grind	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
7. Exc Abut 1	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
7. Exc Abut 1	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
12. Exc Abut 5	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
12. Exc Abut 5	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
2. ESA Fencing; Clear & Grub; Mob	—	—	—	—
2. ESA Fencing; Clear & Grub; Mob	Worker	0.00	0.00	LDA,LDT1,LDT2
2. ESA Fencing; Clear & Grub; Mob	Vendor	4.00	0.19	HHDT,MHDT
2. ESA Fencing; Clear & Grub; Mob	Hauling	8.00	0.19	HHDT
2. ESA Fencing; Clear & Grub; Mob	Onsite truck	—	—	HHDT
4. Ground Impr Abut 1	—	—	—	—
4. Ground Impr Abut 1	Worker	0.00	0.00	LDA,LDT1,LDT2
4. Ground Impr Abut 1	Vendor	6.00	0.19	HHDT,MHDT
4. Ground Impr Abut 1	Hauling	26.0	0.19	HHDT
4. Ground Impr Abut 1	Onsite truck	—	—	HHDT
6. Embankment Grading (Abut 1)	—	—	—	—

6. Embankment Grading (Abut 1)	Worker	0.00	0.00	LDA,LDT1,LDT2
6. Embankment Grading (Abut 1)	Vendor	4.00	0.19	HHDT,MHDT
6. Embankment Grading (Abut 1)	Hauling	4.00	0.19	HHDT
6. Embankment Grading (Abut 1)	Onsite truck	—	—	HHDT
8. Ground Impr Abut 5	—	—	—	—
8. Ground Impr Abut 5	Worker	0.00	0.00	LDA,LDT1,LDT2
8. Ground Impr Abut 5	Vendor	6.00	0.19	HHDT,MHDT
8. Ground Impr Abut 5	Hauling	26.0	0.19	HHDT
8. Ground Impr Abut 5	Onsite truck	—	—	HHDT
11. Embankment Grading (Abut 5)	—	—	—	—
11. Embankment Grading (Abut 5)	Worker	0.00	0.00	LDA,LDT1,LDT2
11. Embankment Grading (Abut 5)	Vendor	4.00	0.19	HHDT,MHDT
11. Embankment Grading (Abut 5)	Hauling	0.00	0.19	HHDT
11. Embankment Grading (Abut 5)	Onsite truck	—	—	HHDT
1. General Construction	—	—	—	—
1. General Construction	Worker	0.00	0.00	LDA,LDT1,LDT2
1. General Construction	Vendor	0.00	0.19	HHDT,MHDT
1. General Construction	Hauling	0.00	0.19	HHDT
1. General Construction	Onsite truck	—	—	HHDT
3. CIDH Piles (Pier 2, 3, 4)	—	—	—	—
3. CIDH Piles (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2
3. CIDH Piles (Pier 2, 3, 4)	Vendor	338	0.19	HHDT,MHDT
3. CIDH Piles (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
3. CIDH Piles (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	—	—	—	—
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2

5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Vendor	116	0.19	HHDT,MHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
9. Cap Falsework (Pier 2, 3, 4)	—	—	—	—
9. Cap Falsework (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2
9. Cap Falsework (Pier 2, 3, 4)	Vendor	0.00	0.19	HHDT,MHDT
9. Cap Falsework (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
9. Cap Falsework (Pier 2, 3, 4)	Onsite truck	—	—	HHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	—	—	—	—
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Vendor	116	0.19	HHDT,MHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	—	—	—	—
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Worker	0.00	0.00	LDA,LDT1,LDT2
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Vendor	116	0.19	HHDT,MHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Hauling	0.00	0.19	HHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Onsite truck	0.00	0.00	HHDT
14. Erect Precast Girders	—	—	—	—

14. Erect Precast Girders	Worker	0.00	0.00	LDA,LDT1,LDT2
14. Erect Precast Girders	Vendor	0.00	0.19	HHDT,MHDT
14. Erect Precast Girders	Hauling	0.00	0.19	HHDT
14. Erect Precast Girders	Onsite truck	—	—	HHDT
15. Cure Deck, Strip Overhangs	—	—	—	—
15. Cure Deck, Strip Overhangs	Worker	0.00	0.00	LDA,LDT1,LDT2
15. Cure Deck, Strip Overhangs	Vendor	56.0	0.19	HHDT,MHDT
15. Cure Deck, Strip Overhangs	Hauling	0.00	0.19	HHDT
15. Cure Deck, Strip Overhangs	Onsite truck	0.00	0.00	HHDT
16. Riprap (Abut 1 & 5)	—	—	—	—
16. Riprap (Abut 1 & 5)	Worker	0.00	0.00	LDA,LDT1,LDT2
16. Riprap (Abut 1 & 5)	Vendor	0.00	0.19	HHDT,MHDT
16. Riprap (Abut 1 & 5)	Hauling	4.00	0.19	HHDT
16. Riprap (Abut 1 & 5)	Onsite truck	—	—	HHDT
17. Sidewalk Barrier Install, Deck Grind	—	—	—	—
17. Sidewalk Barrier Install, Deck Grind	Worker	0.00	0.00	LDA,LDT1,LDT2
17. Sidewalk Barrier Install, Deck Grind	Vendor	56.0	0.19	HHDT,MHDT
17. Sidewalk Barrier Install, Deck Grind	Hauling	0.00	0.19	HHDT
17. Sidewalk Barrier Install, Deck Grind	Onsite truck	0.00	0.00	HHDT
7. Exc Abut 1	—	—	—	—
7. Exc Abut 1	Worker	0.00	0.00	LDA,LDT1,LDT2
7. Exc Abut 1	Vendor	130	0.19	HHDT,MHDT
7. Exc Abut 1	Hauling	6.00	0.19	HHDT
7. Exc Abut 1	Onsite truck	0.00	0.00	HHDT
12. Exc Abut 5	—	—	—	—
12. Exc Abut 5	Worker	0.00	0.00	LDA,LDT1,LDT2
12. Exc Abut 5	Vendor	130	0.19	HHDT,MHDT

12. Exc Abut 5	Hauling	6.00	0.19	HHDT
12. Exc Abut 5	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
2. ESA Fencing; Clear & Grub; Mob	—	—	—	—
2. ESA Fencing; Clear & Grub; Mob	Worker	0.00	0.00	LDA,LDT1,LDT2
2. ESA Fencing; Clear & Grub; Mob	Vendor	4.00	0.19	HHDT,MHDT
2. ESA Fencing; Clear & Grub; Mob	Hauling	8.00	0.19	HHDT
2. ESA Fencing; Clear & Grub; Mob	Onsite truck	—	—	HHDT
4. Ground Impr Abut 1	—	—	—	—
4. Ground Impr Abut 1	Worker	0.00	0.00	LDA,LDT1,LDT2
4. Ground Impr Abut 1	Vendor	6.00	0.19	HHDT,MHDT
4. Ground Impr Abut 1	Hauling	26.0	0.19	HHDT
4. Ground Impr Abut 1	Onsite truck	—	—	HHDT
6. Embankment Grading (Abut 1)	—	—	—	—
6. Embankment Grading (Abut 1)	Worker	0.00	0.00	LDA,LDT1,LDT2
6. Embankment Grading (Abut 1)	Vendor	4.00	0.19	HHDT,MHDT
6. Embankment Grading (Abut 1)	Hauling	4.00	0.19	HHDT
6. Embankment Grading (Abut 1)	Onsite truck	—	—	HHDT
8. Ground Impr Abut 5	—	—	—	—
8. Ground Impr Abut 5	Worker	0.00	0.00	LDA,LDT1,LDT2
8. Ground Impr Abut 5	Vendor	6.00	0.19	HHDT,MHDT
8. Ground Impr Abut 5	Hauling	26.0	0.19	HHDT
8. Ground Impr Abut 5	Onsite truck	—	—	HHDT
11. Embankment Grading (Abut 5)	—	—	—	—
11. Embankment Grading (Abut 5)	Worker	0.00	0.00	LDA,LDT1,LDT2

11. Embankment Grading (Abut 5)	Vendor	4.00	0.19	HHDT,MHDT
11. Embankment Grading (Abut 5)	Hauling	0.00	0.19	HHDT
11. Embankment Grading (Abut 5)	Onsite truck	—	—	HHDT
1. General Construction	—	—	—	—
1. General Construction	Worker	0.00	0.00	LDA,LDT1,LDT2
1. General Construction	Vendor	0.00	0.19	HHDT,MHDT
1. General Construction	Hauling	0.00	0.19	HHDT
1. General Construction	Onsite truck	—	—	HHDT
3. CIDH Piles (Pier 2, 3, 4)	—	—	—	—
3. CIDH Piles (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2
3. CIDH Piles (Pier 2, 3, 4)	Vendor	338	0.19	HHDT,MHDT
3. CIDH Piles (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
3. CIDH Piles (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	—	—	—	—
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Vendor	116	0.19	HHDT,MHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
9. Cap Falsework (Pier 2, 3, 4)	—	—	—	—
9. Cap Falsework (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2
9. Cap Falsework (Pier 2, 3, 4)	Vendor	0.00	0.19	HHDT,MHDT
9. Cap Falsework (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
9. Cap Falsework (Pier 2, 3, 4)	Onsite truck	—	—	HHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	—	—	—	—

10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Worker	0.00	0.00	LDA,LDT1,LDT2
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Vendor	116	0.19	HHDT,MHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Hauling	0.00	0.19	HHDT
10. Cap Form, Rebar, Pour (Pier 2, 3, 4)	Onsite truck	0.00	0.00	HHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	—	—	—	—
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Worker	0.00	0.00	LDA,LDT1,LDT2
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Vendor	116	0.19	HHDT,MHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Hauling	0.00	0.19	HHDT
13. Form, Rebar, Pour (Abut 1 & 5 Ftg, Stem, Walls, and diaphragms & deck)	Onsite truck	0.00	0.00	HHDT
14. Erect Precast Girders	—	—	—	—
14. Erect Precast Girders	Worker	0.00	0.00	LDA,LDT1,LDT2
14. Erect Precast Girders	Vendor	0.00	0.19	HHDT,MHDT
14. Erect Precast Girders	Hauling	0.00	0.19	HHDT
14. Erect Precast Girders	Onsite truck	—	—	HHDT
15. Cure Deck, Strip Overhangs	—	—	—	—
15. Cure Deck, Strip Overhangs	Worker	0.00	0.00	LDA,LDT1,LDT2
15. Cure Deck, Strip Overhangs	Vendor	56.0	0.19	HHDT,MHDT
15. Cure Deck, Strip Overhangs	Hauling	0.00	0.19	HHDT
15. Cure Deck, Strip Overhangs	Onsite truck	0.00	0.00	HHDT
16. Riprap (Abut 1 & 5)	—	—	—	—
16. Riprap (Abut 1 & 5)	Worker	0.00	0.00	LDA,LDT1,LDT2
16. Riprap (Abut 1 & 5)	Vendor	0.00	0.19	HHDT,MHDT

16. Riprap (Abut 1 & 5)	Hauling	4.00	0.19	HHDT
16. Riprap (Abut 1 & 5)	Onsite truck	—	—	HHDT
17. Sidewalk Barrier Install, Deck Grind	—	—	—	—
17. Sidewalk Barrier Install, Deck Grind	Worker	0.00	0.00	LDA,LDT1,LDT2
17. Sidewalk Barrier Install, Deck Grind	Vendor	56.0	0.19	HHDT,MHDT
17. Sidewalk Barrier Install, Deck Grind	Hauling	0.00	0.19	HHDT
17. Sidewalk Barrier Install, Deck Grind	Onsite truck	0.00	0.00	HHDT
7. Exc Abut 1	—	—	—	—
7. Exc Abut 1	Worker	0.00	0.00	LDA,LDT1,LDT2
7. Exc Abut 1	Vendor	130	0.19	HHDT,MHDT
7. Exc Abut 1	Hauling	6.00	0.19	HHDT
7. Exc Abut 1	Onsite truck	0.00	0.00	HHDT
12. Exc Abut 5	—	—	—	—
12. Exc Abut 5	Worker	0.00	0.00	LDA,LDT1,LDT2
12. Exc Abut 5	Vendor	130	0.19	HHDT,MHDT
12. Exc Abut 5	Hauling	6.00	0.19	HHDT
12. Exc Abut 5	Onsite truck	0.00	0.00	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)
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
2. ESA Fencing; Clear & Grub; Mob	—	—	30.0	0.00	—
4. Ground Impr Abut 1	—	500	0.00	0.00	—
6. Embankment Grading (Abut 1)	—	—	2.50	0.00	—
8. Ground Impr Abut 5	—	500	0.00	0.00	—
11. Embankment Grading (Abut 5)	—	—	2.50	0.00	—
7. Exc Abut 1	1,500	1,500	0.00	0.00	—
12. Exc Abut 5	1,500	1,500	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Industrial	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5

Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	64.5
Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2
Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396

Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—
Auto Access	26.42114718
Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251
Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537
Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2

Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6
Life Expectancy at Birth	51.7
Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—
Wildfire Risk	57.5
SLR Inundation Area	0.0
Children	87.0
Elderly	73.1
English Speaking	54.0

Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—
Hardship	21.0
Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	Project footprint estimated to be approx 1.5 acres.
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Off-Road Equipment	Construction assumptions provided by project engineers.
Construction: Dust From Material Movement	Construction assumptions provided by project engineers.
Construction: Trips and VMT	Construction assumptions provided by project engineers. Length of trips adjusted for HRA run (1,000 feet of project boundary).

Fenton Construction Phase 2_HRA Detailed Report

Off-Site Improvements

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton Construction Phase 2_HRA
Construction Start Date	10/7/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.21

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
Road Construction	0.10	Mile	0.15	0.00	—	—	—	—

Other Non-Asphalt Surfaces	0.15	Acre	0.15	0.00	0.00	—	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.94	3.66	47.2	36.0	0.13	1.63	6.15	7.77	1.51	1.15	2.66	—	17,967	17,967	0.88	1.89	0.64	18,553
Mit.	1.52	0.89	22.1	43.1	0.13	0.33	6.15	6.47	0.33	1.15	1.48	—	17,967	17,967	0.88	1.89	0.64	18,553
% Reduced	69%	76%	53%	-20%	—	80%	—	17%	78%	—	45%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.29	0.23	2.54	2.16	0.01	0.10	0.29	0.38	0.09	0.05	0.14	—	803	803	0.04	0.06	0.36	824
Mit.	0.08	0.06	0.95	2.60	0.01	0.02	0.29	0.31	0.02	0.05	0.06	—	803	803	0.04	0.06	0.36	824
% Reduced	73%	73%	62%	-21%	—	82%	—	20%	81%	—	53%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.04	0.46	0.39	< 0.005	0.02	0.05	0.07	0.02	0.01	0.02	—	133	133	0.01	0.01	0.06	136

Mit.	0.01	0.01	0.17	0.48	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	133	133	0.01	0.01	0.06	136
% Reduced	73%	73%	62%	-21%	—	82%	—	20%	81%	—	53%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.94	3.66	47.2	36.0	0.13	1.63	6.15	7.77	1.51	1.15	2.66	—	17,967	17,967	0.88	1.89	0.64	18,553
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.29	0.23	2.54	2.16	0.01	0.10	0.29	0.38	0.09	0.05	0.14	—	803	803	0.04	0.06	0.36	824
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.05	0.04	0.46	0.39	< 0.005	0.02	0.05	0.07	0.02	0.01	0.02	—	133	133	0.01	0.01	0.06	136

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.52	0.89	22.1	43.1	0.13	0.33	6.15	6.47	0.33	1.15	1.48	—	17,967	17,967	0.88	1.89	0.64	18,553

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.08	0.06	0.95	2.60	0.01	0.02	0.29	0.31	0.02	0.05	0.06	—	803	803	0.04	0.06	0.36	824
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.01	0.01	0.17	0.48	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.01	—	133	133	0.01	0.01	0.06	136

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2024) - 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	0.51	0.43	3.69	3.52	< 0.005	0.24	—	0.24	0.23	—	0.23	—	491	491	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
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	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.72	6.72	< 0.005	< 0.005	—	6.74

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	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.11	1.11	< 0.005	< 0.005	—	1.12
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	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.04	0.01	0.65	0.23	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	470	470	0.03	0.08	0.03	493
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	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.73
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.43	6.43	< 0.005	< 0.005	0.01	6.75
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	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.06	1.06	< 0.005	< 0.005	< 0.005	1.12
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3.2. Linear, Grubbing & Land Clearing (2024) - 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	—	491	491	0.02	< 0.005	—	492
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
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	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.72	6.72	< 0.005	< 0.005	—	6.74
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	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.11	1.11	< 0.005	< 0.005	—	1.12

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	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.04	0.01	0.65	0.23	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	470	470	0.03	0.08	0.03	493
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	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.73
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.43	6.43	< 0.005	< 0.005	0.01	6.75
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	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.06	1.06	< 0.005	< 0.005	< 0.005	1.12

3.3. Linear, Grading & Excavation (2024) - 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	4.07	3.42	31.2	30.4	0.06	1.42	—	1.42	1.31	—	1.31	—	6,495	6,495	0.26	0.05	—	6,518
Dust From Material Movement	—	—	—	—	—	—	3.25	3.25	—	0.35	0.35	—	—	—	—	—	—	—
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	0.12	0.10	0.94	0.92	< 0.005	0.04	—	0.04	0.04	—	0.04	—	196	196	0.01	< 0.005	—	196
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	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	0.17	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.4	32.4	< 0.005	< 0.005	—	32.5
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.5	25.5	< 0.005	< 0.005	< 0.005	26.6
Hauling	0.86	0.23	15.9	5.55	0.07	0.21	2.89	3.10	0.21	0.79	1.00	—	11,447	11,447	0.62	1.83	0.64	12,009
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	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.80
Hauling	0.03	0.01	0.48	0.17	< 0.005	0.01	0.09	0.09	0.01	0.02	0.03	—	345	345	0.02	0.06	0.32	362
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	0.13
Hauling	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.1	57.1	< 0.005	0.01	0.05	60.0

3.4. Linear, Grading & Excavation (2024) - 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	0.66	0.66	6.16	37.5	0.06	0.12	—	0.12	0.12	—	0.12	—	6,495	6,495	0.26	0.05	—	6,518

Dust From Material Movement	—	—	—	—	—	—	3.25	3.25	—	0.35	0.35	—	—	—	—	—	—	—
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	1.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	196	196	0.01	< 0.005	—	196
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	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	< 0.005	< 0.005	0.03	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.4	32.4	< 0.005	< 0.005	—	32.5
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.5	25.5	< 0.005	< 0.005	< 0.005	26.6
Hauling	0.86	0.23	15.9	5.55	0.07	0.21	2.89	3.10	0.21	0.79	1.00	—	11,447	11,447	0.62	1.83	0.64	12,009

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	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.80
Hauling	0.03	0.01	0.48	0.17	< 0.005	0.01	0.09	0.09	0.01	0.02	0.03	—	345	345	0.02	0.06	0.32	362
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	0.13
Hauling	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.1	57.1	< 0.005	0.01	0.05	60.0

3.5. Linear, Drainage, Utilities, & Sub-Grade (2024) - 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	3.27	2.74	26.3	24.6	0.05	1.07	—	1.07	0.98	—	0.98	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	2.66	2.66	—	0.29	0.29	—	—	—	—	—	—	—
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	0.09	0.87	0.81	< 0.005	0.04	—	0.04	0.03	—	0.03	—	187	187	0.01	< 0.005	—	188

Dust From Material Movement:	—	—	—	—	—	—	0.09	0.09	—	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	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.0	31.0	< 0.005	< 0.005	—	31.1
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.07	0.02	1.23	0.43	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	881	881	0.05	0.14	0.05	924
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	—	1.68	1.68	< 0.005	< 0.005	< 0.005	1.75
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.9	28.9	< 0.005	< 0.005	0.03	30.4
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	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29

Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.79	4.79	< 0.005	< 0.005	< 0.005	5.03
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3.6. Linear, Drainage, Utilities, & Sub-Grade (2024) - 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	0.79	0.74	5.14	31.6	0.05	0.17	—	0.17	0.17	—	0.17	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	2.66	2.66	—	0.29	0.29	—	—	—	—	—	—	—
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	0.17	1.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	187	187	0.01	< 0.005	—	188
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	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	< 0.005	< 0.005	0.03	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.0	31.0	< 0.005	< 0.005	—	31.1

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
Hauling	0.07	0.02	1.23	0.43	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	881	881	0.05	0.14	0.05	924
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	—	1.68	1.68	< 0.005	< 0.005	< 0.005	1.75
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.9	28.9	< 0.005	< 0.005	0.03	30.4
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	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.79	4.79	< 0.005	< 0.005	< 0.005	5.03

3.7. Linear, Paving (2024) - 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	1.14	0.96	8.15	10.9	0.01	0.39	—	0.39	0.36	—	0.36	—	1,620	1,620	0.07	0.01	—	1,626
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	0.13	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.6	26.6	< 0.005	< 0.005	—	26.7
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	—	4.41	4.41	< 0.005	< 0.005	—	4.42
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	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
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
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	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	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.87
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	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	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	< 0.005	—	0.14	0.14	< 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	0.00

3.8. Linear, Paving (2024) - 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	0.18	0.18	2.58	11.3	0.01	0.03	—	0.03	0.03	—	0.03	—	1,620	1,620	0.07	0.01	—	1,626	
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.6	26.6	< 0.005	< 0.005	—	26.7	
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.41	4.41	< 0.005	< 0.005	—	4.42	

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	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
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
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	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.87
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	—	0.14	0.14	< 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

3.9. Architectural Coating (2024) - 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	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	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	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	—	< 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	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30
Architectural Coatings	—	< 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	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
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
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	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.73
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	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
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. Architectural Coating (2024) - 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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	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	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	—	< 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	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30
Architectural Coatings	—	< 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	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	51.0	51.0	< 0.005	0.01	< 0.005	53.1
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
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	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.73
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	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	10/7/2024	10/11/2024	5.00	5.00	—

Linear, Grading & Excavation	Linear, Grading & Excavation	10/12/2024	10/28/2024	5.00	11.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	10/29/2024	11/13/2024	5.00	12.0	—
Linear, Paving	Linear, Paving	11/14/2024	11/21/2024	5.00	6.00	—
Architectural Coating	Architectural Coating	11/22/2024	11/28/2024	5.00	5.00	—

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
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, Grubbing & Land Clearing	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	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	2.00	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	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82

Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	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	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	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	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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, Grubbing & Land Clearing	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
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	3.00	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	2.00	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	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	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	2.00	8.00	423	0.48

Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	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	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	7.63	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	6.40	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	1.00	7.63	HHDT,MHDT
Linear, Grading & Excavation	Hauling	156	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	7.63	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	12.0	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	7.63	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	7.63	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	6.40	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	1.00	7.63	HHDT,MHDT
Linear, Grading & Excavation	Hauling	156	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	7.63	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	12.0	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	7.63	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	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	0.00	0.00	0.00	0.00	392

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)
Linear, Grubbing & Land Clearing	—	250	0.15	0.00	—
Linear, Grading & Excavation	13,400	200	0.15	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	1,036	—	0.15	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	0.15	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5
Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9

Groundwater	64.5
Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2
Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396
Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—

Auto Access	26.42114718
Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251
Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537
Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2
Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6

Life Expectancy at Birth	51.7
Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—
Wildfire Risk	57.5
SLR Inundation Area	0.0
Children	87.0
Elderly	73.1
English Speaking	54.0
Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—

Hardship	21.0
Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Trips and VMT	Workers included for architectural coating phase. Trips adjusted for HRA (1,000 feet from project boundary).
Construction: Paving	Paving only required once.

Fenton CIP Construction Phase 1 Detailed Report

Bridge Construction

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton CIP Construction Phase 1
Construction Start Date	1/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.21

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
User Defined Industrial	0.20	User Defined Unit	1.50	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	4.90	3.67	43.3	36.8	0.16	1.06	5.41	6.47	0.99	1.44	2.43	—	22,416	22,416	0.98	2.33	46.8	23,182
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.63	6.87	74.0	69.6	0.23	2.48	11.9	14.1	2.29	4.80	6.88	—	29,402	29,402	1.30	2.63	1.24	30,221
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.50	1.99	19.7	18.8	0.06	0.62	1.97	2.59	0.57	0.63	1.20	—	7,344	7,344	0.32	0.57	4.95	7,526
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.46	0.36	3.60	3.43	0.01	0.11	0.36	0.47	0.10	0.12	0.22	—	1,216	1,216	0.05	0.09	0.82	1,246

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2025	4.90	3.67	43.3	36.8	0.16	1.06	5.41	6.47	0.99	1.44	2.43	—	22,416	22,416	0.98	2.33	46.8	23,182
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	8.63	6.87	74.0	69.6	0.23	2.48	11.9	14.1	2.29	4.80	6.88	—	29,402	29,402	1.30	2.63	1.24	30,221
2026	3.22	2.61	23.8	25.2	0.07	0.79	1.43	2.22	0.73	0.37	1.10	—	8,416	8,416	0.35	0.51	0.25	8,576
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.50	1.99	19.7	18.8	0.06	0.62	1.97	2.59	0.57	0.63	1.20	—	7,344	7,344	0.32	0.57	4.95	7,526
2026	0.24	0.19	1.67	1.79	< 0.005	0.06	0.07	0.12	0.05	0.02	0.07	—	487	487	0.02	0.02	0.18	494
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.46	0.36	3.60	3.43	0.01	0.11	0.36	0.47	0.10	0.12	0.22	—	1,216	1,216	0.05	0.09	0.82	1,246
2026	0.04	0.04	0.31	0.33	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	80.6	80.6	< 0.005	< 0.005	0.03	81.7

3. Construction Emissions Details

3.1. 2. ESA Fencing; Clear & Grub; Mob (2025) - 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	3.17	2.67	24.1	24.9	0.05	1.08	—	1.08	1.00	—	1.00	—	5,146	5,146	0.21	0.04	—	5,164

Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
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	0.12	1.06	1.09	< 0.005	0.05	—	0.05	0.04	—	0.04	—	226	226	0.01	< 0.005	—	226
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.16	0.16	—	—	—	—	—	—	—
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	0.03	0.02	0.19	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.5
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.65	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	143	143	0.01	0.01	0.01	145
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.01	104
Hauling	0.04	0.01	0.78	0.28	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	575	575	0.03	0.09	0.03	603

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	—	6.34	6.34	< 0.005	< 0.005	0.01	6.43
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.39	4.39	< 0.005	< 0.005	< 0.005	4.58
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.2	25.2	< 0.005	< 0.005	0.02	26.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.06
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	0.76
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.17	4.17	< 0.005	< 0.005	< 0.005	4.38

3.3. 4. Ground Impr Abut 1 (2025) - 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	1.56	1.30	11.5	14.6	0.03	0.47	—	0.47	0.43	—	0.43	—	2,885	2,885	0.12	0.02	—	2,895
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.50	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	126	126	0.01	< 0.005	—	127

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.9	20.9	< 0.005	< 0.005	—	21.0
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	0.04	0.04	0.03	0.41	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	89.6	89.6	< 0.005	< 0.005	0.01	90.8
Vendor	0.01	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.01	157
Hauling	0.14	0.04	2.54	0.93	0.01	0.03	0.48	0.52	0.03	0.13	0.17	—	1,869	1,869	0.10	0.29	0.11	1,959
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	—	3.96	3.96	< 0.005	< 0.005	0.01	4.02
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.58	6.58	< 0.005	< 0.005	0.01	6.88
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	81.9	81.9	< 0.005	0.01	0.08	85.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.14

Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.2
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3.5. 6. Embankment Grading (Abut 1) (2025) - 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	1.68	1.41	12.3	12.6	0.02	0.55	—	0.55	0.50	—	0.50	—	2,162	2,162	0.09	0.02	—	2,170
Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
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	—	5.88	5.88	< 0.005	< 0.005	—	5.90

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.05	0.04	0.49	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	108	108	0.01	< 0.005	0.01	109
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.01	104
Hauling	0.02	0.01	0.39	0.14	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	288	288	0.02	0.05	0.02	301
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	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.65	1.65	< 0.005	< 0.005	< 0.005	1.72
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.73	4.73	< 0.005	< 0.005	< 0.005	4.96
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.82

3.7. 8. Ground Impr Abut 4 (2025) - 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	1.54	1.28	11.6	12.3	0.03	0.44	—	0.44	0.40	—	0.40	—	2,990	2,990	0.12	0.02	—	3,001
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.51	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	131	131	0.01	< 0.005	—	132
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.7	21.7	< 0.005	< 0.005	—	21.8
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	0.04	0.04	0.03	0.41	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	89.6	89.6	< 0.005	< 0.005	0.01	90.8
Vendor	0.01	0.01	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	150	150	0.01	0.02	0.01	157
Hauling	0.14	0.04	2.54	0.93	0.01	0.03	0.48	0.52	0.03	0.13	0.17	—	1,869	1,869	0.10	0.29	0.11	1,959
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	—	3.96	3.96	< 0.005	< 0.005	0.01	4.02
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.58	6.58	< 0.005	< 0.005	0.01	6.88
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	81.9	81.9	< 0.005	0.01	0.08	85.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.14
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.2

3.9. 9. Embankment Grading (Abut 4) (2025) - 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	1.68	1.41	12.3	12.6	0.02	0.55	—	0.55	0.50	—	0.50	—	2,162	2,162	0.09	0.02	—	2,170

Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
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	—	5.88	5.88	< 0.005	< 0.005	—	5.90
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.05	0.04	0.49	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	108	108	0.01	< 0.005	0.01	109
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.01	104
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	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.65	1.65	< 0.005	< 0.005	< 0.005	1.72
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	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 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

3.11. 1. General Construction (2025) - 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	1.49	1.24	10.8	10.2	0.02	0.40	—	0.40	0.37	—	0.37	—	2,091	2,091	0.08	0.02	—	2,098
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	1.49	1.24	10.8	10.2	0.02	0.40	—	0.40	0.37	—	0.37	—	2,091	2,091	0.08	0.02	—	2,098
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	1.07	0.89	7.73	7.29	0.02	0.29	—	0.29	0.26	—	0.26	—	1,494	1,494	0.06	0.01	—	1,499
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	0.19	0.16	1.41	1.33	< 0.005	0.05	—	0.05	0.05	—	0.05	—	247	247	0.01	< 0.005	—	248
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	0.10	0.07	1.11	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	228	228	0.01	0.01	0.85	231
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.10	0.08	0.97	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	215	215	0.01	0.01	0.02	218
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.07	0.07	0.06	0.71	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	155	155	0.01	0.01	0.26	157
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.04	26.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 1. General 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.20	10.5	10.1	0.02	0.37	—	0.37	0.34	—	0.34	—	2,091	2,091	0.08	0.02	—	2,098
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	1.15	1.11	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.9	37.9	< 0.005	< 0.005	—	38.1
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	0.09	0.09	0.07	0.92	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.02	213
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.3	23.3	< 0.005	< 0.005	0.04	23.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.86	3.86	< 0.005	< 0.005	0.01	3.91
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 3. CIDH Piles (Pier 2, 3) (2025) - 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	1.19	0.99	8.85	10.2	0.02	0.36	—	0.36	0.33	—	0.33	—	2,185	2,185	0.09	0.02	—	2,193
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	0.07	0.06	0.51	0.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	126	126	0.01	< 0.005	—	126
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	0.09	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.8	20.8	< 0.005	< 0.005	—	20.9
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	0.81	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	179	179	0.01	0.01	0.02	182
Vendor	0.71	0.33	11.7	5.38	0.06	0.11	2.16	2.28	0.11	0.60	0.71	—	8,464	8,464	0.37	1.20	0.57	8,830
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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.02	10.6
Vendor	0.04	0.02	0.67	0.30	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	487	487	0.02	0.07	0.55	508
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	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.75
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	80.6	80.6	< 0.005	0.01	0.09	84.2
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

3.17. 5. Column Form, Rebar, Pour (Pier 2, 3) (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	57.0	57.0	< 0.005	< 0.005	—	57.2
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.43	9.43	< 0.005	< 0.005	—	9.47
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	0.10	0.10	0.08	0.97	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	215	215	0.01	0.01	0.02	218
Vendor	0.24	0.11	4.01	1.85	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,905	2,905	0.13	0.41	0.20	3,030

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	—	12.5	12.5	< 0.005	< 0.005	0.02	12.7
Vendor	0.01	0.01	0.23	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	167	167	0.01	0.02	0.19	174
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	—	2.07	2.07	< 0.005	< 0.005	< 0.005	2.10
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.7	27.7	< 0.005	< 0.005	0.03	28.9
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

3.19. 12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls) (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.66	0.56	< 0.005	0.03	—	0.03	0.02	—	0.02	—	179	179	0.01	< 0.005	—	180
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	0.12	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7
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	0.19	0.18	0.13	2.04	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	417	417	0.02	0.01	1.57	424
Vendor	0.25	0.12	3.86	1.79	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,903	2,903	0.13	0.41	7.53	3,036
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.33	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	71.9	71.9	< 0.005	< 0.005	0.12	73.0
Vendor	0.04	0.02	0.72	0.33	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	525	525	0.02	0.07	0.59	548
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	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	0.02	12.1
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	86.9	86.9	< 0.005	0.01	0.10	90.8
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. 13. Erect Falsework (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.41	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	111	111	< 0.005	< 0.005	—	112
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	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.4	18.4	< 0.005	< 0.005	—	18.5
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.12	1.85	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	380	380	0.02	0.01	1.42	385
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.6	40.6	< 0.005	< 0.005	0.07	41.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.72	6.72	< 0.005	< 0.005	0.01	6.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 15. Cure Deck, Stress Bridge, Strip Falsework (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.26	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	69.8	69.8	< 0.005	< 0.005	—	70.0
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	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.6	11.6	< 0.005	< 0.005	—	11.6

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	0.17	0.16	0.14	1.62	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	358	358	0.02	0.01	0.04	363
Vendor	0.12	0.05	1.94	0.89	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,402	1,402	0.06	0.20	0.09	1,463
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	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.5	25.5	< 0.005	< 0.005	0.04	25.8
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	98.8	98.8	< 0.005	0.01	0.11	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.22	4.22	< 0.005	< 0.005	0.01	4.28
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.02	17.1
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

3.25. 15. Cure Deck, Stress Bridge, Strip Falsework (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	3.45	3.07	0.01	0.14	—	0.14	0.13	—	0.13	—	990	990	0.04	0.01	—	993
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	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.1	27.1	< 0.005	< 0.005	—	27.2
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	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.49	4.49	< 0.005	< 0.005	—	4.51
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	0.16	0.14	0.12	1.53	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	351	351	0.02	0.01	0.03	356
Vendor	0.11	0.04	1.84	0.85	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,376	1,376	0.05	0.20	0.09	1,437
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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.71	9.71	< 0.005	< 0.005	0.02	9.85
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.7	37.7	< 0.005	0.01	0.04	39.4
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.63
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.24	6.24	< 0.005	< 0.005	0.01	6.52
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. 16. Riprap (Abut 1 & 4) (2025) - 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	0.37	0.31	2.36	4.14	0.01	0.11	—	0.11	0.10	—	0.10	—	643	643	0.03	0.01	—	645
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	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.26	1.26	< 0.005	< 0.005	—	1.26
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	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.21	0.21	< 0.005	< 0.005	—	0.21
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	0.03	0.03	0.03	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	71.7	71.7	< 0.005	< 0.005	0.01	72.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	288	288	0.02	0.05	0.02	301
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10

3.29. 16. Riprap (Abut 1 & 4) (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	0.35	0.30	2.15	4.15	0.01	0.09	—	0.09	0.09	—	0.09	—	643	643	0.03	0.01	—	645

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	0.12	0.23	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	35.2	35.2	< 0.005	< 0.005	—	35.4
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	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.83	5.83	< 0.005	< 0.005	—	5.85
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	0.03	0.03	0.02	0.31	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	70.2	70.2	< 0.005	< 0.005	0.01	71.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.38	0.14	< 0.005	0.01	0.07	0.08	< 0.005	0.02	0.02	—	281	281	0.01	0.05	0.02	295
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	—	3.88	3.88	< 0.005	< 0.005	0.01	3.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	0.01	16.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.55	2.55	< 0.005	< 0.005	< 0.005	2.68

3.31. 17. Sidewalk Barrier Install, Deck Grind (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	3.45	3.07	0.01	0.14	—	0.14	0.13	—	0.13	—	990	990	0.04	0.01	—	993
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	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.4	43.4	< 0.005	< 0.005	—	43.6
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	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.19	7.19	< 0.005	< 0.005	—	7.21
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	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.1	35.1	< 0.005	< 0.005	< 0.005	35.6
Vendor	0.11	0.04	1.84	0.85	0.01	0.02	0.36	0.38	0.02	0.10	0.12	—	1,376	1,376	0.05	0.20	0.09	1,437
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	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.58
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.3	60.3	< 0.005	0.01	0.06	63.0
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.26
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.99	9.99	< 0.005	< 0.005	0.01	10.4
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

3.33. 11. CIDH Piles (Abuts 1, 4) (2025) - 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	1.08	0.90	7.93	9.42	0.02	0.33	—	0.33	0.30	—	0.30	—	1,938	1,938	0.08	0.02	—	1,945
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	1.08	0.90	7.93	9.42	0.02	0.33	—	0.33	0.30	—	0.30	—	1,938	1,938	0.08	0.02	—	1,945

Fenton CIP Construction Phase 1 Detailed Report, 1/30/2024

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	0.11	1.00	1.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	244	244	0.01	< 0.005	—	245
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	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.4	40.4	< 0.005	< 0.005	—	40.6
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	0.93	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	190	190	0.01	0.01	0.71	193
Vendor	0.72	0.34	11.3	5.23	0.06	0.11	2.16	2.28	0.11	0.60	0.71	—	8,459	8,459	0.37	1.20	22.0	8,847
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	0.09	0.08	0.07	0.81	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	179	179	0.01	0.01	0.02	182
Vendor	0.71	0.33	11.7	5.38	0.06	0.11	2.16	2.28	0.11	0.60	0.71	—	8,464	8,464	0.37	1.20	0.57	8,830
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	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	22.8	22.8	< 0.005	< 0.005	0.04	23.1
Vendor	0.09	0.04	1.46	0.67	0.01	0.01	0.27	0.28	0.01	0.07	0.09	—	1,066	1,066	0.05	0.15	1.20	1,114
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.77	3.77	< 0.005	< 0.005	0.01	3.83
Vendor	0.02	0.01	0.27	0.12	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	177	177	0.01	0.02	0.20	184
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

3.35. 14a. Form, Rebar, Pour (soffit, Stems & decks) (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.12	1.16	0.99	< 0.005	0.05	—	0.05	0.04	—	0.04	—	315	315	0.01	< 0.005	—	316
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	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.1	52.1	< 0.005	< 0.005	—	52.3

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	0.24	0.22	0.17	2.50	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	512	512	0.02	0.02	1.92	520
Vendor	0.25	0.12	3.86	1.79	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,903	2,903	0.13	0.41	7.53	3,036
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	0.23	0.21	0.18	2.19	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	484	484	0.03	0.02	0.05	490
Vendor	0.24	0.11	4.01	1.85	0.02	0.04	0.74	0.78	0.04	0.21	0.24	—	2,905	2,905	0.13	0.41	0.20	3,030
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	0.07	0.07	0.06	0.71	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	155	155	0.01	0.01	0.26	157
Vendor	0.08	0.04	1.27	0.58	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	923	923	0.04	0.13	1.04	964
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	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.04	26.1
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	153	153	0.01	0.02	0.17	160
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

3.37. 12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls) (2025) - 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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
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
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	0.86	0.40	13.3	6.18	0.07	0.13	2.56	2.69	0.13	0.71	0.84	—	10,011	10,011	0.44	1.42	26.0	10,470
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.4	27.4	< 0.005	< 0.005	0.03	28.7
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	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.54	4.54	< 0.005	< 0.005	0.01	4.74
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

3.39. 14b. Form, Rebar, Pour (soffit, Stems & decks) (2025) - 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
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
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

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	0.84	0.39	13.8	6.37	0.07	0.13	2.56	2.69	0.13	0.71	0.84	—	10,016	10,016	0.44	1.42	0.67	10,450
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	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.4	27.4	< 0.005	< 0.005	0.03	28.7
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	0.00	0.00	0.00	0.00	0.00	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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.54	4.54	< 0.005	< 0.005	0.01	4.74
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

3.41. 7. Exc Abut 1 (2025) - 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	0.37	0.31	2.36	4.14	0.01	0.11	—	0.11	0.10	—	0.10	—	643	643	0.03	0.01	—	645
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.75	1.75	< 0.005	< 0.005	—	1.76
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	0.03	0.03	0.03	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	71.7	71.7	< 0.005	< 0.005	0.01	72.6
Vendor	0.27	0.13	4.49	2.07	0.02	0.04	0.83	0.88	0.04	0.23	0.27	—	3,255	3,255	0.14	0.46	0.22	3,396
Hauling	0.03	0.01	0.59	0.21	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	431	431	0.02	0.07	0.02	452
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	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.21
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	53.5	53.5	< 0.005	0.01	0.06	55.9
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.09	7.09	< 0.005	< 0.005	0.01	7.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.20
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.86	8.86	< 0.005	< 0.005	0.01	9.25
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.23

3.43. 10. Exc Abut 4 (2025) - 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	0.37	0.31	2.36	4.14	0.01	0.11	—	0.11	0.10	—	0.10	—	643	643	0.03	0.01	—	645

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.75	1.75	< 0.005	< 0.005	—	1.76
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	0.03	0.03	0.03	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	71.7	71.7	< 0.005	< 0.005	0.01	72.6
Vendor	0.27	0.13	4.49	2.07	0.02	0.04	0.83	0.88	0.04	0.23	0.27	—	3,255	3,255	0.14	0.46	0.22	3,396
Hauling	0.03	0.01	0.59	0.21	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	431	431	0.02	0.07	0.02	452

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	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.21
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	53.5	53.5	< 0.005	0.01	0.06	55.9
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.09	7.09	< 0.005	< 0.005	0.01	7.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.20
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.86	8.86	< 0.005	< 0.005	0.01	9.25
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	< 0.005	1.23

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
2. ESA Fencing; Clear & Grub; Mob	Site Preparation	1/1/2025	1/22/2025	5.00	16.0	—

4. Ground Impr Abut 1	Grading	1/22/2025	2/12/2025	5.00	16.0	—
6. Embankment Grading (Abut 1)	Grading	2/12/2025	2/19/2025	5.00	6.00	—
8. Ground Impr Abut 4	Grading	2/19/2025	3/12/2025	5.00	16.0	—
9. Embankment Grading (Abut 4)	Grading	3/12/2025	3/19/2025	5.00	6.00	—
1. General Construction	Building Construction	1/1/2025	2/25/2026	5.00	301	—
3. CIDH Piles (Pier 2, 3)	Building Construction	1/22/2025	2/19/2025	5.00	21.0	—
5. Column Form, Rebar, Pour (Pier 2, 3)	Building Construction	2/12/2025	3/12/2025	5.00	21.0	—
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Building Construction	4/2/2025	7/2/2025	5.00	66.0	—
13. Erect Falsework	Building Construction	5/28/2025	7/23/2025	5.00	41.0	—
15. Cure Deck, Stress Bridge, Strip Falsework	Building Construction	11/26/2025	1/14/2026	5.00	36.0	—
16. Riprap (Abut 1 & 4)	Building Construction	12/31/2025	1/28/2026	5.00	21.0	—
17. Sidewalk Barrier Install, Deck Grind	Building Construction	1/14/2026	2/4/2026	5.00	16.0	—
11. CIDH Piles (Abuts 1, 4)	Building Construction	2/26/2025	4/30/2025	5.00	46.0	—
14a. Form, Rebar, Pour (soffit, Stems & decks)	Building Construction	6/18/2025	11/26/2025	5.00	116	—
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Building Construction	7/1/2025	7/1/2025	5.00	1.00	Concrete trucks for pour
14b. Form, Rebar, Pour (soffit, Stems & decks)	Building Construction	11/25/2025	11/25/2025	5.00	1.00	Concrete trucks for pour
7. Exc Abut 1	Trenching	2/19/2025	2/26/2025	5.00	6.00	—
10. Exc Abut 4	Trenching	3/19/2025	3/26/2025	5.00	6.00	—

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
2. ESA Fencing; Clear & Grub; Mob	Other Construction Equipment	Diesel	Average	1.00	8.00	170	0.42
2. ESA Fencing; Clear & Grub; Mob	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
2. ESA Fencing; Clear & Grub; Mob	Graders	Diesel	Average	1.00	8.00	148	0.41
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
2. ESA Fencing; Clear & Grub; Mob	Scrapers	Diesel	Average	1.00	8.00	423	0.48
4. Ground Impr Abut 1	Cranes	Diesel	Average	1.00	10.0	367	0.29
4. Ground Impr Abut 1	Bore/Drill Rigs	Diesel	Average	1.00	10.0	83.0	0.50
4. Ground Impr Abut 1	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
4. Ground Impr Abut 1	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48
4. Ground Impr Abut 1	Forklifts	Diesel	Average	1.00	10.0	82.0	0.20
4. Ground Impr Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	10.0	150	0.36
6. Embankment Grading (Abut 1)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
6. Embankment Grading (Abut 1)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
6. Embankment Grading (Abut 1)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
6. Embankment Grading (Abut 1)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
8. Ground Impr Abut 4	Rubber Tired Loaders	Diesel	Average	1.00	10.0	175	0.36
8. Ground Impr Abut 4	Cranes	Diesel	Average	1.00	10.0	367	0.29
8. Ground Impr Abut 4	Bore/Drill Rigs	Diesel	Average	1.00	10.0	83.0	0.50

8. Ground Impr Abut 4	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
8. Ground Impr Abut 4	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48
8. Ground Impr Abut 4	Forklifts	Diesel	Average	1.00	10.0	82.0	0.20
9. Embankment Grading (Abut 4)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
9. Embankment Grading (Abut 4)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
9. Embankment Grading (Abut 4)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
9. Embankment Grading (Abut 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
1. General Construction	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
1. General Construction	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
1. General Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
1. General Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
1. General Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
1. General Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
3. CIDH Piles (Pier 2, 3)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
3. CIDH Piles (Pier 2, 3)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
3. CIDH Piles (Pier 2, 3)	Cranes	Diesel	Average	1.00	8.00	367	0.29
3. CIDH Piles (Pier 2, 3)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
5. Column Form, Rebar, Pour (Pier 2, 3)	Cranes	Diesel	Average	1.00	8.00	367	0.29
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Cranes	Diesel	Average	1.00	8.00	367	0.29
13. Erect Falsework	Cranes	Diesel	Average	1.00	8.00	367	0.29
15. Cure Deck, Stress Bridge, Strip Falsework	Cranes	Diesel	Average	1.00	8.00	367	0.29
16. Riprap (Abut 1 & 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36

16. Riprap (Abut 1 & 4)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
17. Sidewalk Barrier Install, Deck Grind	Cranes	Diesel	Average	1.00	8.00	367	0.29
11. CIDH Piles (Abuts 1, 4)	Cranes	Diesel	Average	1.00	6.00	367	0.29
11. CIDH Piles (Abuts 1, 4)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
11. CIDH Piles (Abuts 1, 4)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
11. CIDH Piles (Abuts 1, 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
14a. Form, Rebar, Pour (soffit, Stems & decks)	Cranes	Diesel	Average	1.00	8.00	367	0.29
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Cranes	Diesel	Average	0.00	6.00	367	0.29
14b. Form, Rebar, Pour (soffit, Stems & decks)	Cranes	Diesel	Average	0.00	6.00	367	0.29
7. Exc Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
7. Exc Abut 1	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
10. Exc Abut 4	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
10. Exc Abut 4	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
2. ESA Fencing; Clear & Grub; Mob	—	—	—	—
2. ESA Fencing; Clear & Grub; Mob	Worker	16.0	12.0	LDA,LDT1,LDT2
2. ESA Fencing; Clear & Grub; Mob	Vendor	4.00	7.63	HHDT,MHDT
2. ESA Fencing; Clear & Grub; Mob	Hauling	8.00	20.0	HHDT

2. ESA Fencing; Clear & Grub; Mob	Onsite truck	—	—	HHDT
4. Ground Impr Abut 1	—	—	—	—
4. Ground Impr Abut 1	Worker	10.0	12.0	LDA,LDT1,LDT2
4. Ground Impr Abut 1	Vendor	6.00	7.63	HHDT,MHDT
4. Ground Impr Abut 1	Hauling	26.0	20.0	HHDT
4. Ground Impr Abut 1	Onsite truck	—	—	HHDT
6. Embankment Grading (Abut 1)	—	—	—	—
6. Embankment Grading (Abut 1)	Worker	12.0	12.0	LDA,LDT1,LDT2
6. Embankment Grading (Abut 1)	Vendor	4.00	7.63	HHDT,MHDT
6. Embankment Grading (Abut 1)	Hauling	4.00	20.0	HHDT
6. Embankment Grading (Abut 1)	Onsite truck	—	—	HHDT
8. Ground Impr Abut 4	—	—	—	—
8. Ground Impr Abut 4	Worker	10.0	12.0	LDA,LDT1,LDT2
8. Ground Impr Abut 4	Vendor	6.00	7.63	HHDT,MHDT
8. Ground Impr Abut 4	Hauling	26.0	20.0	HHDT
8. Ground Impr Abut 4	Onsite truck	—	—	HHDT
9. Embankment Grading (Abut 4)	—	—	—	—
9. Embankment Grading (Abut 4)	Worker	12.0	12.0	LDA,LDT1,LDT2
9. Embankment Grading (Abut 4)	Vendor	4.00	7.63	HHDT,MHDT
9. Embankment Grading (Abut 4)	Hauling	0.00	20.0	HHDT
9. Embankment Grading (Abut 4)	Onsite truck	—	—	HHDT
1. General Construction	—	—	—	—
1. General Construction	Worker	24.0	12.0	LDA,LDT1,LDT2
1. General Construction	Vendor	0.00	7.63	HHDT,MHDT
1. General Construction	Hauling	0.00	20.0	HHDT
1. General Construction	Onsite truck	—	—	HHDT
3. CIDH Piles (Pier 2, 3)	—	—	—	—

3. CIDH Piles (Pier 2, 3)	Worker	20.0	12.0	LDA,LDT1,LDT2
3. CIDH Piles (Pier 2, 3)	Vendor	338	7.63	HHDT,MHDT
3. CIDH Piles (Pier 2, 3)	Hauling	0.00	20.0	HHDT
3. CIDH Piles (Pier 2, 3)	Onsite truck	0.00	0.00	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	—	—	—	—
5. Column Form, Rebar, Pour (Pier 2, 3)	Worker	24.0	12.0	LDA,LDT1,LDT2
5. Column Form, Rebar, Pour (Pier 2, 3)	Vendor	116	7.63	HHDT,MHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	Hauling	0.00	20.0	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	Onsite truck	0.00	0.00	HHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	—	—	—	—
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Worker	44.0	12.0	LDA,LDT1,LDT2
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Vendor	116	7.63	HHDT,MHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Hauling	0.00	20.0	HHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Onsite truck	0.00	0.00	HHDT
13. Erect Falsework	—	—	—	—
13. Erect Falsework	Worker	40.0	12.0	LDA,LDT1,LDT2
13. Erect Falsework	Vendor	0.00	7.63	HHDT,MHDT
13. Erect Falsework	Hauling	0.00	20.0	HHDT
13. Erect Falsework	Onsite truck	—	—	HHDT
15. Cure Deck, Stress Bridge, Strip Falsework	—	—	—	—

15. Cure Deck, Stress Bridge, Strip Falsework	Worker	40.0	12.0	LDA,LDT1,LDT2
15. Cure Deck, Stress Bridge, Strip Falsework	Vendor	56.0	7.63	HHDT,MHDT
15. Cure Deck, Stress Bridge, Strip Falsework	Hauling	0.00	20.0	HHDT
15. Cure Deck, Stress Bridge, Strip Falsework	Onsite truck	0.00	0.00	HHDT
16. Riprap (Abut 1 & 4)	—	—	—	—
16. Riprap (Abut 1 & 4)	Worker	8.00	12.0	LDA,LDT1,LDT2
16. Riprap (Abut 1 & 4)	Vendor	0.00	7.63	HHDT,MHDT
16. Riprap (Abut 1 & 4)	Hauling	4.00	20.0	HHDT
16. Riprap (Abut 1 & 4)	Onsite truck	—	—	HHDT
17. Sidewalk Barrier Install, Deck Grind	—	—	—	—
17. Sidewalk Barrier Install, Deck Grind	Worker	4.00	12.0	LDA,LDT1,LDT2
17. Sidewalk Barrier Install, Deck Grind	Vendor	56.0	7.63	HHDT,MHDT
17. Sidewalk Barrier Install, Deck Grind	Hauling	0.00	20.0	HHDT
17. Sidewalk Barrier Install, Deck Grind	Onsite truck	0.00	0.00	HHDT
7. Exc Abut 1	—	—	—	—
7. Exc Abut 1	Worker	8.00	12.0	LDA,LDT1,LDT2
7. Exc Abut 1	Vendor	130	7.63	HHDT,MHDT
7. Exc Abut 1	Hauling	6.00	20.0	HHDT
7. Exc Abut 1	Onsite truck	0.00	0.00	HHDT
10. Exc Abut 4	—	—	—	—
10. Exc Abut 4	Worker	8.00	12.0	LDA,LDT1,LDT2
10. Exc Abut 4	Vendor	130	7.63	HHDT,MHDT
10. Exc Abut 4	Hauling	6.00	20.0	HHDT
10. Exc Abut 4	Onsite truck	0.00	0.00	HHDT
11. CIDH Piles (Abuts 1, 4)	—	—	—	—

11. CIDH Piles (Abuts 1, 4)	Worker	20.0	12.0	LDA,LDT1,LDT2
11. CIDH Piles (Abuts 1, 4)	Vendor	338	7.63	HHDT,MHDT
11. CIDH Piles (Abuts 1, 4)	Hauling	0.00	20.0	HHDT
11. CIDH Piles (Abuts 1, 4)	Onsite truck	—	—	HHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	—	—	—	—
14a. Form, Rebar, Pour (soffit, Stems & decks)	Worker	54.0	12.0	LDA,LDT1,LDT2
14a. Form, Rebar, Pour (soffit, Stems & decks)	Vendor	116	7.63	HHDT,MHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	Hauling	0.00	20.0	HHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	Onsite truck	—	—	HHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	—	—	—	—
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Worker	0.00	12.0	LDA,LDT1,LDT2
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Vendor	400	7.63	HHDT,MHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Hauling	0.00	20.0	HHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Onsite truck	—	—	HHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	—	—	—	—
14b. Form, Rebar, Pour (soffit, Stems & decks)	Worker	0.00	12.0	LDA,LDT1,LDT2
14b. Form, Rebar, Pour (soffit, Stems & decks)	Vendor	400	7.63	HHDT,MHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	Hauling	0.00	20.0	HHDT

14b. Form, Rebar, Pour (soffit, Stems & decks)	Onsite truck	—	—	HHDT
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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)
------------	--	--	--	--	-----------------------------

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
2. ESA Fencing; Clear & Grub; Mob	—	—	32.0	0.00	—
4. Ground Impr Abut 1	1,500	1,500	0.00	0.00	—
6. Embankment Grading (Abut 1)	—	—	3.00	0.00	—
8. Ground Impr Abut 4	1,500	1,500	0.00	0.00	—
9. Embankment Grading (Abut 4)	—	—	3.00	0.00	—
7. Exc Abut 1	—	500	0.00	0.00	—
10. Exc Abut 4	—	500	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Industrial	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	589	0.03	< 0.005
2026	0.00	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
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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
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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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5
Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	64.5
Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2
Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396
Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—
Auto Access	26.42114718
Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251
Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537
Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452

Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2
Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6
Life Expectancy at Birth	51.7
Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—
Wildfire Risk	57.5
SLR Inundation Area	0.0

Children	87.0
Elderly	73.1
English Speaking	54.0
Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—
Hardship	21.0
Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	Project footprint estimated to be approx 1.5 acres.
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Off-Road Equipment	Construction assumptions provided by project engineers.
Construction: Dust From Material Movement	Construction assumptions provided by project engineers.
Construction: Trips and VMT	Construction assumptions provided by project engineers.

Fenton Construction Phase 2 - CIP Detailed Report

Off-Site Improvements

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton Construction Phase 2 - CIP
Construction Start Date	2/11/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.21

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
Road Construction	0.10	Mile	0.15	0.00	—	—	—	—

Other Non-Asphalt Surfaces	0.15	Acre	0.15	0.00	0.00	—	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.43	3.30	40.0	35.8	0.13	1.29	6.40	7.69	1.14	1.21	2.35	—	17,784	17,784	0.83	1.83	0.62	18,352
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.21	2.14	2.13	0.01	0.07	0.31	0.39	0.07	0.05	0.12	—	830	830	0.04	0.07	0.39	852
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.04	0.39	0.39	< 0.005	0.01	0.06	0.07	0.01	0.01	0.02	—	137	137	0.01	0.01	0.06	141

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.43	3.30	40.0	35.8	0.13	1.29	6.40	7.69	1.14	1.21	2.35	—	17,784	17,784	0.83	1.83	0.62	18,352
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.26	0.21	2.14	2.13	0.01	0.07	0.31	0.39	0.07	0.05	0.12	—	830	830	0.04	0.07	0.39	852
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.05	0.04	0.39	0.39	< 0.005	0.01	0.06	0.07	0.01	0.01	0.02	—	137	137	0.01	0.01	0.06	141

3. Construction Emissions Details

3.1. 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	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
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	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.03	4.03	< 0.005	< 0.005	—	4.04
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.67	0.67	< 0.005	< 0.005	—	0.67
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	0.06	0.02	1.13	0.42	0.01	0.02	0.22	0.24	0.01	0.06	0.07	—	844	844	0.04	0.14	0.05	886
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.44	0.44	< 0.005	< 0.005	< 0.005	0.44
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	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.94	6.94	< 0.005	< 0.005	0.01	7.29
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.15	1.15	< 0.005	< 0.005	< 0.005	1.21

3.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.52	2.96	25.2	29.1	0.06	1.09	—	1.09	1.00	—	1.00	—	6,495	6,495	0.26	0.05	—	6,517
Dust From Material Movement:	—	—	—	—	—	—	3.24	3.24	—	0.35	0.35	—	—	—	—	—	—	—
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	0.12	0.10	0.83	0.96	< 0.005	0.04	—	0.04	0.03	—	0.03	—	214	214	0.01	< 0.005	—	214
Dust From Material Movement:	—	—	—	—	—	—	0.11	0.11	—	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	0.15	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.4	35.4	< 0.005	< 0.005	—	35.5
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.14	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	263	263	0.01	0.01	0.03	267
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	0.79	0.23	14.7	5.48	0.07	0.21	2.89	3.10	0.14	0.79	0.93	—	10,977	10,977	0.55	1.76	0.60	11,517
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.69
Hauling	0.03	0.01	0.48	0.18	< 0.005	0.01	0.09	0.10	< 0.005	0.03	0.03	—	361	361	0.02	0.06	0.33	379
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	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.7	59.7	< 0.005	0.01	0.05	62.7

3.5. 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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85	2.39	21.2	23.3	0.05	0.83	—	0.83	0.76	—	0.76	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	2.66	2.66	—	0.29	0.29	—	—	—	—	—	—	—
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	0.07	0.64	0.70	< 0.005	0.02	—	0.02	0.02	—	0.02	—	172	172	0.01	< 0.005	—	172
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	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	0.01	0.12	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.4	28.4	< 0.005	< 0.005	—	28.5
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	0.10	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	0.06	0.02	1.13	0.42	0.01	0.02	0.22	0.24	0.01	0.06	0.07	—	844	844	0.04	0.14	0.05	886
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	—	6.94	6.94	< 0.005	< 0.005	0.01	7.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.48	1.48	< 0.005	< 0.005	< 0.005	1.55
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.4	25.4	< 0.005	< 0.005	0.02	26.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.15	1.15	< 0.005	< 0.005	< 0.005	1.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.21	4.21	< 0.005	< 0.005	< 0.005	4.42

3.7. 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	1.00	0.84	7.37	10.8	0.01	0.30	—	0.30	0.28	—	0.28	—	1,619	1,619	0.07	0.01	—	1,625

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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	—	22.2	22.2	< 0.005	< 0.005	—	22.3
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	—	3.67	3.67	< 0.005	< 0.005	—	3.68
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	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.18	2.18	< 0.005	< 0.005	< 0.005	2.22
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.70
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	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.37
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
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. Architectural Coating (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	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	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	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	—	< 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	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30
Architectural Coatings	—	< 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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.74
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.70
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	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
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
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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
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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
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	2/9/2026	2/11/2026	5.00	3.00	—
Linear, Grading & Excavation	Linear, Grading & Excavation	2/12/2026	2/27/2026	5.00	12.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	3/2/2026	3/16/2026	5.00	11.0	—
Linear, Paving	Linear, Paving	3/17/2026	3/23/2026	5.00	5.00	—
Architectural Coating	Architectural Coating	3/24/2026	3/30/2026	5.00	5.00	—

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
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, Grubbing & Land Clearing	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43

Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	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	2.00	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	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	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	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	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	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Architectural Coating	—	—	—	—
Architectural Coating	Worker	6.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	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	12.0	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	30.0	12.0	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	7.63	HHDT,MHDT
Linear, Grading & Excavation	Hauling	156	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	12.0	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

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	0.00	0.00	0.00	0.00	392

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)
Linear, Grubbing & Land Clearing	—	250	0.15	0.00	—
Linear, Grading & Excavation	13,400	200	0.15	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	1,036	—	0.15	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	0.15	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	0.00	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
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5
Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	64.5
Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2
Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396
Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—
Auto Access	26.42114718
Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251
Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537

Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2
Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6
Life Expectancy at Birth	51.7
Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—

Wildfire Risk	57.5
SLR Inundation Area	0.0
Children	87.0
Elderly	73.1
English Speaking	54.0
Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—
Hardship	21.0
Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Trips and VMT	Workers included for architectural coating phase.
Construction: Paving	Paving only required once.

Fenton Construction Phase 1 - CIP HRA Detailed Report

Bridge Construction

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton Construction Phase 1 - CIP HRA
Construction Start Date	1/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.21

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
User Defined Industrial	0.20	User Defined Unit	1.50	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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.	3.39	2.75	28.6	26.2	0.05	0.88	0.10	0.95	0.81	0.03	0.83	—	6,131	6,131	0.39	0.21	1.02	6,203
Mit.	1.66	1.37	14.9	31.7	0.05	0.31	0.10	0.38	0.29	0.03	0.31	—	6,131	6,131	0.39	0.21	1.02	6,203
% Reduced	51%	50%	48%	-21%	—	65%	—	60%	64%	—	62%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.73	6.39	59.7	63.1	0.12	2.32	8.21	10.5	2.13	3.56	5.69	—	12,984	12,984	0.64	0.26	0.03	13,060
Mit.	2.53	2.16	23.9	74.4	0.12	0.49	8.21	8.70	0.46	3.56	4.02	—	12,984	12,984	0.64	0.26	0.03	13,060
% Reduced	67%	66%	60%	-18%	—	79%	—	17%	78%	—	29%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.06	1.70	16.1	15.3	0.03	0.57	0.60	1.16	0.52	0.27	0.79	—	3,413	3,413	0.17	0.06	0.10	3,436
Mit.	0.83	0.71	7.55	18.7	0.03	0.17	0.60	0.76	0.16	0.27	0.43	—	3,413	3,413	0.17	0.06	0.10	3,436
% Reduced	60%	58%	53%	-22%	—	70%	—	34%	70%	—	46%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.38	0.31	2.93	2.79	0.01	0.10	0.11	0.21	0.10	0.05	0.14	—	565	565	0.03	0.01	0.02	569
Mit.	0.15	0.13	1.38	3.41	0.01	0.03	0.11	0.14	0.03	0.05	0.08	—	565	565	0.03	0.01	0.02	569
% Reduced	60%	58%	53%	-22%	—	70%	—	34%	70%	—	46%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.39	2.75	28.6	26.2	0.05	0.88	0.10	0.95	0.81	0.03	0.83	—	6,131	6,131	0.39	0.21	1.02	6,203
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	7.73	6.39	59.7	63.1	0.12	2.32	8.21	10.5	2.13	3.56	5.69	—	12,984	12,984	0.64	0.26	0.03	13,060
2026	2.77	2.30	20.8	21.4	0.05	0.75	0.02	0.77	0.69	0.01	0.69	—	4,912	4,912	0.22	0.07	< 0.005	4,938
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.06	1.70	16.1	15.3	0.03	0.57	0.60	1.16	0.52	0.27	0.79	—	3,413	3,413	0.17	0.06	0.10	3,436
2026	0.21	0.18	1.56	1.59	< 0.005	0.06	< 0.005	0.06	0.05	< 0.005	0.05	—	342	342	0.01	< 0.005	< 0.005	344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.38	0.31	2.93	2.79	0.01	0.10	0.11	0.21	0.10	0.05	0.14	—	565	565	0.03	0.01	0.02	569
2026	0.04	0.03	0.28	0.29	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	56.6	56.6	< 0.005	< 0.005	< 0.005	56.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.66	1.37	14.9	31.7	0.05	0.31	0.10	0.38	0.29	0.03	0.31	—	6,131	6,131	0.39	0.21	1.02	6,203
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.53	2.16	23.9	74.4	0.12	0.49	8.21	8.70	0.46	3.56	4.02	—	12,984	12,984	0.64	0.26	0.03	13,060
2026	1.02	0.90	9.48	27.1	0.05	0.21	0.02	0.23	0.20	0.01	0.20	—	4,912	4,912	0.22	0.07	< 0.005	4,938
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.83	0.71	7.55	18.7	0.03	0.17	0.60	0.76	0.16	0.27	0.43	—	3,413	3,413	0.17	0.06	0.10	3,436
2026	0.09	0.08	0.82	1.93	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	342	342	0.01	< 0.005	< 0.005	344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.15	0.13	1.38	3.41	0.01	0.03	0.11	0.14	0.03	0.05	0.08	—	565	565	0.03	0.01	0.02	569
2026	0.02	0.01	0.15	0.35	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	56.6	56.6	< 0.005	< 0.005	< 0.005	56.9

3. Construction Emissions Details

3.1. 2. ESA Fencing; Clear & Grub; Mob (2025) - 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	3.17	2.67	24.1	24.9	0.05	1.08	—	1.08	1.00	—	1.00	—	5,146	5,146	0.21	0.04	—	5,164
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
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	0.12	1.06	1.09	< 0.005	0.05	—	0.05	0.04	—	0.04	—	226	226	0.01	< 0.005	—	226
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.16	0.16	—	—	—	—	—	—	—
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	0.03	0.02	0.19	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.3	37.3	< 0.005	< 0.005	—	37.5
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	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
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	—	6.82	6.82	< 0.005	< 0.005	< 0.005	7.16
Hauling	0.01	< 0.005	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.3	19.3	< 0.005	< 0.005	< 0.005	20.4
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	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.89
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15

3.2. 2. ESA Fencing; Clear & Grub; Mob (2025) - 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	0.49	0.49	3.12	29.2	0.05	0.10	—	0.10	0.10	—	0.10	—	5,146	5,146	0.21	0.04	—	5,164
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
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

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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	1.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	226	226	0.01	< 0.005	—	226
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.16	0.16	—	—	—	—	—	—	—
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	< 0.005	< 0.005	0.02	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.3	37.3	< 0.005	< 0.005	—	37.5
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	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
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	—	6.82	6.82	< 0.005	< 0.005	< 0.005	7.16
Hauling	0.01	< 0.005	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.3	19.3	< 0.005	< 0.005	< 0.005	20.4
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	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.89
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15

3.3. 4. Ground Impr Abut 1 (2025) - 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	1.56	1.30	11.5	14.6	0.03	0.47	—	0.47	0.43	—	0.43	—	2,885	2,885	0.12	0.02	—	2,895
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.50	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	126	126	0.01	< 0.005	—	127
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

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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	0.09	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.9	20.9	< 0.005	< 0.005	—	21.0
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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	< 0.005	10.7
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.8	62.8	0.01	0.01	< 0.005	66.2
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	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
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	0.08
Hauling	< 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	0.48

3.4. 4. Ground Impr Abut 1 (2025) - 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	0.43	0.40	3.32	17.5	0.03	0.09	—	0.09	0.09	—	0.09	—	2,885	2,885	0.12	0.02	—	2,895
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	126	126	0.01	< 0.005	—	127
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.9	20.9	< 0.005	< 0.005	—	21.0

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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	< 0.005	10.7
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.8	62.8	0.01	0.01	< 0.005	66.2
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	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
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	0.08
Hauling	< 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	0.48

3.5. 6. Embankment Grading (Abut 1) (2025) - 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	1.68	1.41	12.3	12.6	0.02	0.55	—	0.55	0.50	—	0.50	—	2,162	2,162	0.09	0.02	—	2,170
Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
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	—	5.88	5.88	< 0.005	< 0.005	—	5.90
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.82	6.82	< 0.005	< 0.005	< 0.005	7.16
Hauling	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.66	9.66	< 0.005	< 0.005	< 0.005	10.2
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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Hauling	< 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
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	< 0.005	< 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

3.6. 6. Embankment Grading (Abut 1) (2025) - 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	0.22	0.22	2.25	12.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,162	2,162	0.09	0.02	—	2,170

Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
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	—	5.88	5.88	< 0.005	< 0.005	—	5.90
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.82	6.82	< 0.005	< 0.005	< 0.005	7.16
Hauling	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.66	9.66	< 0.005	< 0.005	< 0.005	10.2

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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Hauling	< 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
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	< 0.005	< 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

3.7. 8. Ground Impr Abut 4 (2025) - 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	1.54	1.28	11.6	12.3	0.03	0.44	—	0.44	0.40	—	0.40	—	2,990	2,990	0.12	0.02	—	3,001
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.51	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	131	131	0.01	< 0.005	—	132

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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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.7	21.7	< 0.005	< 0.005	—	21.8
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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	< 0.005	10.7
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.8	62.8	0.01	0.01	< 0.005	66.2
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	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
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	0.08

Hauling	< 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	0.48
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3.8. 8. Ground Impr Abut 4 (2025) - 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	0.41	3.37	16.7	0.03	0.09	—	0.09	0.09	—	0.09	—	2,990	2,990	0.12	0.02	—	3,001
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	131	131	0.01	< 0.005	—	132
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.7	21.7	< 0.005	< 0.005	—	21.8

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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	< 0.005	10.7
Hauling	0.03	0.02	0.43	0.29	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	62.8	62.8	0.01	0.01	< 0.005	66.2
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	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.74	2.74	< 0.005	< 0.005	< 0.005	2.88
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	0.08
Hauling	< 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	0.48

3.9. 9. Embankment Grading (Abut 4) (2025) - 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	1.68	1.41	12.3	12.6	0.02	0.55	—	0.55	0.50	—	0.50	—	2,162	2,162	0.09	0.02	—	2,170
Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
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	—	5.88	5.88	< 0.005	< 0.005	—	5.90
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.82	6.82	< 0.005	< 0.005	< 0.005	7.16
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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
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

3.10. 9. Embankment Grading (Abut 4) (2025) - 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	0.22	0.22	2.25	12.2	0.02	0.04	—	0.04	0.04	—	0.04	—	2,162	2,162	0.09	0.02	—	2,170

Dust From Material Movement	—	—	—	—	—	—	6.55	6.55	—	3.37	3.37	—	—	—	—	—	—	—
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	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.5	35.5	< 0.005	< 0.005	—	35.7
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
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	—	5.88	5.88	< 0.005	< 0.005	—	5.90
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	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	0.05	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.82	6.82	< 0.005	< 0.005	< 0.005	7.16
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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
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

3.11. 1. General Construction (2025) - 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	1.49	1.24	10.8	10.2	0.02	0.40	—	0.40	0.37	—	0.37	—	2,091	2,091	0.08	0.02	—	2,098
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	1.49	1.24	10.8	10.2	0.02	0.40	—	0.40	0.37	—	0.37	—	2,091	2,091	0.08	0.02	—	2,098
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	1.07	0.89	7.73	7.29	0.02	0.29	—	0.29	0.26	—	0.26	—	1,494	1,494	0.06	0.01	—	1,499
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	0.19	0.16	1.41	1.33	< 0.005	0.05	—	0.05	0.05	—	0.05	—	247	247	0.01	< 0.005	—	248
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 1. General Construction (2025) - 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	0.67	0.59	6.30	11.9	0.02	0.16	—	0.16	0.15	—	0.15	—	2,091	2,091	0.08	0.02	—	2,098
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	0.67	0.59	6.30	11.9	0.02	0.16	—	0.16	0.15	—	0.15	—	2,091	2,091	0.08	0.02	—	2,098
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	0.48	0.42	4.50	8.47	0.02	0.11	—	0.11	0.11	—	0.11	—	1,494	1,494	0.06	0.01	—	1,499
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	0.09	0.08	0.82	1.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	247	247	0.01	< 0.005	—	248
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 1. General 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.20	10.5	10.1	0.02	0.37	—	0.37	0.34	—	0.34	—	2,091	2,091	0.08	0.02	—	2,098
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	1.15	1.11	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.9	37.9	< 0.005	< 0.005	—	38.1
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 1. General 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.59	6.28	11.9	0.02	0.16	—	0.16	0.15	—	0.15	—	2,091	2,091	0.08	0.02	—	2,098
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	0.07	0.06	0.69	1.30	< 0.005	0.02	—	0.02	0.02	—	0.02	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.9	37.9	< 0.005	< 0.005	—	38.1
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 3. CIDH Piles (Pier 2, 3) (2025) - 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	1.19	0.99	8.85	10.2	0.02	0.36	—	0.36	0.33	—	0.33	—	2,185	2,185	0.09	0.02	—	2,193

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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	0.07	0.06	0.51	0.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	126	126	0.01	< 0.005	—	126
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	0.09	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.8	20.8	< 0.005	< 0.005	—	20.9
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
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	0.26	0.16	3.81	2.72	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	576	576	0.10	0.09	0.01	605
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	0.02	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	33.0	33.0	0.01	0.01	0.01	34.7
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	0.00	0.00	0.00	0.00	0.00	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	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.74
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. 3. CIDH Piles (Pier 2, 3) (2025) - 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	0.54	0.48	3.31	12.7	0.02	0.13	—	0.13	0.12	—	0.12	—	2,185	2,185	0.09	0.02	—	2,193
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	0.19	0.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	126	126	0.01	< 0.005	—	126
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	0.03	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.8	20.8	< 0.005	< 0.005	—	20.9
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
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	0.26	0.16	3.81	2.72	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	576	576	0.10	0.09	0.01	605
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	0.02	0.01	0.21	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	33.0	33.0	0.01	0.01	0.01	34.7
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	0.00	0.00	0.00	0.00	0.00	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	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.74
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. 5. Column Form, Rebar, Pour (Pier 2, 3) (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	57.0	57.0	< 0.005	< 0.005	—	57.2
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.43	9.43	< 0.005	< 0.005	—	9.47
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	0.09	0.06	1.31	0.93	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	198	198	0.03	0.03	< 0.005	208
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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.9
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	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	1.97
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. 5. Column Form, Rebar, Pour (Pier 2, 3) (2025) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.03	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	57.0	57.0	< 0.005	< 0.005	—	57.2
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	—	9.43	9.43	< 0.005	< 0.005	—	9.47
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	0.09	0.06	1.31	0.93	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	198	198	0.03	0.03	< 0.005	208

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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.9
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	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	1.97
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. 12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls) (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.66	0.56	< 0.005	0.03	—	0.03	0.02	—	0.02	—	179	179	0.01	< 0.005	—	180
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	0.12	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7
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	0.10	0.06	1.26	0.88	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	196	196	0.03	0.03	0.19	206
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.02	0.01	0.23	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	35.6	35.6	0.01	0.01	0.01	37.4
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
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	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.89	5.89	< 0.005	< 0.005	< 0.005	6.19
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. 12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls) (2025) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.09	0.88	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	179	179	0.01	< 0.005	—	180
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	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7
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	0.10	0.06	1.26	0.88	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	196	196	0.03	0.03	0.19	206
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Vendor	0.02	0.01	0.23	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	35.6	35.6	0.01	0.01	0.01	37.4
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	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	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	< 0.005	—	5.89	5.89	< 0.005	< 0.005	< 0.005	6.19
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	0.00

3.21. 13. Erect Falsework (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.41	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	111	111	< 0.005	< 0.005	—	112
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	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.4	18.4	< 0.005	< 0.005	—	18.5

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
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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. 13. Erect Falsework (2025) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.55	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	111	111	< 0.005	< 0.005	—	112
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	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.4	18.4	< 0.005	< 0.005	—	18.5
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
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00

3.23. 15. Cure Deck, Stress Bridge, Strip Falsework (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.26	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	69.8	69.8	< 0.005	< 0.005	—	70.0
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	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.6	11.6	< 0.005	< 0.005	—	11.6
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	0.04	0.03	0.63	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.4	95.4	0.02	0.01	< 0.005	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	0.00	0.00	0.00	0.00	0.00	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	—	6.69	6.69	< 0.005	< 0.005	< 0.005	7.03
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
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	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.11	1.11	< 0.005	< 0.005	< 0.005	1.16
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. 15. Cure Deck, Stress Bridge, Strip Falsework (2025) - 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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994

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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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	69.8	69.8	< 0.005	< 0.005	—	70.0	
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.6	11.6	< 0.005	< 0.005	—	11.6	
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	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	0.00
Vendor	0.04	0.03	0.63	0.45	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	95.4	95.4	0.02	0.01	< 0.005	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	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	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	—	6.69	6.69	< 0.005	< 0.005	< 0.005	7.03	
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	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	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	—	1.11	1.11	< 0.005	< 0.005	< 0.005	1.16	
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	0.00

3.25. 15. Cure Deck, Stress Bridge, Strip Falsework (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	3.45	3.07	0.01	0.14	—	0.14	0.13	—	0.13	—	990	990	0.04	0.01	—	993
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	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.1	27.1	< 0.005	< 0.005	—	27.2
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	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.49	4.49	< 0.005	< 0.005	—	4.51
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	0.04	0.03	0.62	0.44	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	94.0	94.0	0.02	0.01	< 0.005	98.7
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
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.56	2.56	< 0.005	< 0.005	< 0.005	2.69
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
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	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
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. 15. Cure Deck, Stress Bridge, Strip Falsework (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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	993
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	0.01	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.1	27.1	< 0.005	< 0.005	—	27.2
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	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.49	4.49	< 0.005	< 0.005	—	4.51
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	0.04	0.03	0.62	0.44	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	94.0	94.0	0.02	0.01	< 0.005	98.7
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
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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.56	2.56	< 0.005	< 0.005	< 0.005	2.69
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
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	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
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. 16. Riprap (Abut 1 & 4) (2025) - 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	0.37	0.31	2.36	4.14	0.01	0.11	—	0.11	0.10	—	0.10	—	643	643	0.03	0.01	—	645
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	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.26	1.26	< 0.005	< 0.005	—	1.26
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	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.21	0.21	< 0.005	< 0.005	—	0.21
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.66	9.66	< 0.005	< 0.005	< 0.005	10.2
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 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
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

3.28. 16. Riprap (Abut 1 & 4) (2025) - 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	0.07	0.07	0.91	4.51	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645
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	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.26	1.26	< 0.005	< 0.005	—	1.26
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	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.21	0.21	< 0.005	< 0.005	—	0.21
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.66	9.66	< 0.005	< 0.005	< 0.005	10.2
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 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
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

3.29. 16. Riprap (Abut 1 & 4) (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	0.35	0.30	2.15	4.15	0.01	0.09	—	0.09	0.09	—	0.09	—	643	643	0.03	0.01	—	645
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	0.12	0.23	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	35.2	35.2	< 0.005	< 0.005	—	35.4
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	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.83	5.83	< 0.005	< 0.005	—	5.85
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.50	9.50	< 0.005	< 0.005	< 0.005	10.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09

3.30. 16. Riprap (Abut 1 & 4) (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	0.07	0.07	0.91	4.51	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645
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	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.2	35.2	< 0.005	< 0.005	—	35.4
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	—	5.83	5.83	< 0.005	< 0.005	—	5.85

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.50	9.50	< 0.005	< 0.005	< 0.005	10.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09

3.31. 17. Sidewalk Barrier Install, Deck Grind (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.45	3.07	0.01	0.14	—	0.14	0.13	—	0.13	—	990	990	0.04	0.01	—	993
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	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	43.4	43.4	< 0.005	< 0.005	—	43.6
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	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.19	7.19	< 0.005	< 0.005	—	7.21
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	0.04	0.03	0.62	0.44	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	94.0	94.0	0.02	0.01	< 0.005	98.7
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
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	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.10	4.10	< 0.005	< 0.005	< 0.005	4.31
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	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
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

3.32. 17. Sidewalk Barrier Install, Deck Grind (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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	993
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	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.4	43.4	< 0.005	< 0.005	—	43.6
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	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.19	7.19	< 0.005	< 0.005	—	7.21
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	0.04	0.03	0.62	0.44	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	94.0	94.0	0.02	0.01	< 0.005	98.7
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
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	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.10	4.10	< 0.005	< 0.005	< 0.005	4.31
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	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
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

3.33. 11. CIDH Piles (Abuts 1, 4) (2025) - 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	1.08	0.90	7.93	9.42	0.02	0.33	—	0.33	0.30	—	0.30	—	1,938	1,938	0.08	0.02	—	1,945
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

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Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	0.90	7.93	9.42	0.02	0.33	—	0.33	0.30	—	0.30	—	1,938	1,938	0.08	0.02	—	1,945
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	0.11	1.00	1.19	< 0.005	0.04	—	0.04	0.04	—	0.04	—	244	244	0.01	< 0.005	—	245
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	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.4	40.4	< 0.005	< 0.005	—	40.6
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.28	0.18	3.66	2.56	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	571	571	0.10	0.09	0.55	601
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	0.26	0.16	3.81	2.72	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	576	576	0.10	0.09	0.01	605
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	0.00
Vendor	0.03	0.02	0.47	0.33	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	72.3	72.3	0.01	0.01	0.03	75.9	
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	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	0.00
Vendor	0.01	< 0.005	0.09	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	< 0.005	12.6	
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	0.00

3.34. 11. CIDH Piles (Abuts 1, 4) (2025) - 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	0.51	0.45	3.19	11.5	0.02	0.13	—	0.13	0.12	—	0.12	—	1,938	1,938	0.08	0.02	—	1,945
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	0.51	0.45	3.19	11.5	0.02	0.13	—	0.13	0.12	—	0.12	—	1,938	1,938	0.08	0.02	—	1,945
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	0.06	0.06	0.40	1.44	< 0.005	0.02	—	0.02	0.02	—	0.02	—	244	244	0.01	< 0.005	—	245

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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	0.07	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.4	40.4	< 0.005	< 0.005	—	40.6
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.28	0.18	3.66	2.56	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	571	571	0.10	0.09	0.55	601
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	0.26	0.16	3.81	2.72	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	576	576	0.10	0.09	0.01	605
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	0.03	0.02	0.47	0.33	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	72.3	72.3	0.01	0.01	0.03	75.9
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	0.01	< 0.005	0.09	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	< 0.005	12.6
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

3.35. 14a. Form, Rebar, Pour (soffit, Stems & decks) (2025) - 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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.45	0.38	3.66	3.12	0.01	0.15	—	0.15	0.14	—	0.14	—	990	990	0.04	0.01	—	994
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	0.12	1.16	0.99	< 0.005	0.05	—	0.05	0.04	—	0.04	—	315	315	0.01	< 0.005	—	316
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	0.21	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.1	52.1	< 0.005	< 0.005	—	52.3
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	0.10	0.06	1.26	0.88	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	196	196	0.03	0.03	0.19	206
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	0.09	0.06	1.31	0.93	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	198	198	0.03	0.03	< 0.005	208
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	0.03	0.02	0.41	0.29	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	62.5	62.5	0.01	0.01	0.03	65.7
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	0.00	0.00	0.00	0.00	0.00	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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	10.9
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

3.36. 14a. Form, Rebar, Pour (soffit, Stems & decks) (2025) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.09	0.09	0.49	4.88	0.01	0.02	—	0.02	0.02	—	0.02	—	990	990	0.04	0.01	—	994
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	0.16	1.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	315	315	0.01	< 0.005	—	316
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	0.03	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	52.1	52.1	< 0.005	< 0.005	—	52.3
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	0.10	0.06	1.26	0.88	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	196	196	0.03	0.03	0.19	206
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	0.09	0.06	1.31	0.93	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	198	198	0.03	0.03	< 0.005	208
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	0.03	0.02	0.41	0.29	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	62.5	62.5	0.01	0.01	0.03	65.7
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	0.00	0.00	0.00	0.00	0.00	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	0.07	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	10.9
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

3.37. 12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls) (2025) - 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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

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	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	—	0.00
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	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	0.00
Vendor	0.33	0.21	4.33	3.03	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	676	676	0.11	0.10	0.65	711	
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	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	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.95	
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	0.00	0.00	0.00	0.00	0.00	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	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.32	
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	

3.38. 12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls) (2025) - 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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (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
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
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
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	0.33	0.21	4.33	3.03	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	676	676	0.11	0.10	0.65	711
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.95
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	0.00	0.00	0.00	0.00	0.00	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	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.32
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

3.39. 14b. Form, Rebar, Pour (soffit, Stems & decks) (2025) - 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
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
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
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	0.31	0.19	4.51	3.22	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	682	682	0.11	0.10	0.02	716
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	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.95
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	0.00	0.00	0.00	0.00	0.00	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	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.32
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

3.40. 14b. Form, Rebar, Pour (soffit, Stems & decks) (2025) - 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
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
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
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	0.31	0.19	4.51	3.22	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	682	682	0.11	0.10	0.02	716
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	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	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.95
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	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	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	< 0.005	—	0.31	0.31	< 0.005	< 0.005	< 0.005	0.32
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	0.00

3.41. 7. Exc Abut 1 (2025) - 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	0.37	0.31	2.36	4.14	0.01	0.11	—	0.11	0.10	—	0.10	—	643	643	0.03	0.01	—	645
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6

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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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.75	1.75	< 0.005	< 0.005	—	1.76
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	0.10	0.06	1.46	1.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	222	222	0.04	0.03	0.01	233
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	< 0.005	15.3
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.81
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
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	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

Hauling	< 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
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3.42. 7. Exc Abut 1 (2025) - 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	0.07	0.07	0.91	4.51	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.75	1.75	< 0.005	< 0.005	—	1.76

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	0.10	0.06	1.46	1.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	222	222	0.04	0.03	0.01	233
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	< 0.005	15.3
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.81
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
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	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Hauling	< 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

3.43. 10. Exc Abut 4 (2025) - 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	0.37	0.31	2.36	4.14	0.01	0.11	—	0.11	0.10	—	0.10	—	643	643	0.03	0.01	—	645
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.75	1.75	< 0.005	< 0.005	—	1.76
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	0.10	0.06	1.46	1.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	222	222	0.04	0.03	0.01	233
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	< 0.005	15.3
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.81
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
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	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Hauling	< 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

3.44. 10. Exc Abut 4 (2025) - 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	0.07	0.07	0.91	4.51	0.01	0.01	—	0.01	0.01	—	0.01	—	643	643	0.03	0.01	—	645

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.75	1.75	< 0.005	< 0.005	—	1.76
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	0.10	0.06	1.46	1.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	222	222	0.04	0.03	0.01	233
Hauling	0.01	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	< 0.005	15.3

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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.63	3.63	< 0.005	< 0.005	< 0.005	3.81
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.25
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	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63
Hauling	< 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

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
2. ESA Fencing; Clear & Grub; Mob	Site Preparation	1/1/2025	1/22/2025	5.00	16.0	—
4. Ground Impr Abut 1	Grading	1/22/2025	2/12/2025	5.00	16.0	—
6. Embankment Grading (Abut 1)	Grading	2/12/2025	2/19/2025	5.00	6.00	—
8. Ground Impr Abut 4	Grading	2/19/2025	3/12/2025	5.00	16.0	—
9. Embankment Grading (Abut 4)	Grading	3/12/2025	3/19/2025	5.00	6.00	—
1. General Construction	Building Construction	1/1/2025	2/25/2026	5.00	301	—
3. CIDH Piles (Pier 2, 3)	Building Construction	1/22/2025	2/19/2025	5.00	21.0	—
5. Column Form, Rebar, Pour (Pier 2, 3)	Building Construction	2/12/2025	3/12/2025	5.00	21.0	—
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Building Construction	4/2/2025	7/2/2025	5.00	66.0	—
13. Erect Falsework	Building Construction	5/28/2025	7/23/2025	5.00	41.0	—
15. Cure Deck, Stress Bridge, Strip Falsework	Building Construction	11/26/2025	1/14/2026	5.00	36.0	—
16. Riprap (Abut 1 & 4)	Building Construction	12/31/2025	1/28/2026	5.00	21.0	—
17. Sidewalk Barrier Install, Deck Grind	Building Construction	1/14/2026	2/4/2026	5.00	16.0	—
11. CIDH Piles (Abuts 1, 4)	Building Construction	2/26/2025	4/30/2025	5.00	46.0	—
14a. Form, Rebar, Pour (soffit, Stems & decks)	Building Construction	6/18/2025	11/26/2025	5.00	116	—
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Building Construction	7/1/2025	7/1/2025	5.00	1.00	Concrete trucks for pour

14b. Form, Rebar, Pour (soffit, Stems & decks)	Building Construction	11/25/2025	11/25/2025	5.00	1.00	Concrete trucks for pour
7. Exc Abut 1	Trenching	2/19/2025	2/26/2025	5.00	6.00	—
10. Exc Abut 4	Trenching	3/19/2025	3/26/2025	5.00	6.00	—

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
2. ESA Fencing; Clear & Grub; Mob	Other Construction Equipment	Diesel	Average	1.00	8.00	170	0.42
2. ESA Fencing; Clear & Grub; Mob	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
2. ESA Fencing; Clear & Grub; Mob	Graders	Diesel	Average	1.00	8.00	148	0.41
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
2. ESA Fencing; Clear & Grub; Mob	Scrapers	Diesel	Average	1.00	8.00	423	0.48
4. Ground Impr Abut 1	Cranes	Diesel	Average	1.00	10.0	367	0.29
4. Ground Impr Abut 1	Bore/Drill Rigs	Diesel	Average	1.00	10.0	83.0	0.50
4. Ground Impr Abut 1	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
4. Ground Impr Abut 1	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48
4. Ground Impr Abut 1	Forklifts	Diesel	Average	1.00	10.0	82.0	0.20
4. Ground Impr Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	10.0	150	0.36
6. Embankment Grading (Abut 1)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
6. Embankment Grading (Abut 1)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36

6. Embankment Grading (Abut 1)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
6. Embankment Grading (Abut 1)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
8. Ground Impr Abut 4	Rubber Tired Loaders	Diesel	Average	1.00	10.0	175	0.36
8. Ground Impr Abut 4	Cranes	Diesel	Average	1.00	10.0	367	0.29
8. Ground Impr Abut 4	Bore/Drill Rigs	Diesel	Average	1.00	10.0	83.0	0.50
8. Ground Impr Abut 4	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
8. Ground Impr Abut 4	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48
8. Ground Impr Abut 4	Forklifts	Diesel	Average	1.00	10.0	82.0	0.20
9. Embankment Grading (Abut 4)	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
9. Embankment Grading (Abut 4)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
9. Embankment Grading (Abut 4)	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
9. Embankment Grading (Abut 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
1. General Construction	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
1. General Construction	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
1. General Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
1. General Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
1. General Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
1. General Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
3. CIDH Piles (Pier 2, 3)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
3. CIDH Piles (Pier 2, 3)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
3. CIDH Piles (Pier 2, 3)	Cranes	Diesel	Average	1.00	8.00	367	0.29
3. CIDH Piles (Pier 2, 3)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
5. Column Form, Rebar, Pour (Pier 2, 3)	Cranes	Diesel	Average	1.00	8.00	367	0.29

12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Cranes	Diesel	Average	1.00	8.00	367	0.29
13. Erect Falsework	Cranes	Diesel	Average	1.00	8.00	367	0.29
15. Cure Deck, Stress Bridge, Strip Falsework	Cranes	Diesel	Average	1.00	8.00	367	0.29
16. Riprap (Abut 1 & 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
16. Riprap (Abut 1 & 4)	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
17. Sidewalk Barrier Install, Deck Grind	Cranes	Diesel	Average	1.00	8.00	367	0.29
11. CIDH Piles (Abuts 1, 4)	Cranes	Diesel	Average	1.00	6.00	367	0.29
11. CIDH Piles (Abuts 1, 4)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
11. CIDH Piles (Abuts 1, 4)	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
11. CIDH Piles (Abuts 1, 4)	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
14a. Form, Rebar, Pour (soffit, Stems & decks)	Cranes	Diesel	Average	1.00	8.00	367	0.29
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Cranes	Diesel	Average	0.00	6.00	367	0.29
14b. Form, Rebar, Pour (soffit, Stems & decks)	Cranes	Diesel	Average	0.00	6.00	367	0.29
7. Exc Abut 1	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
7. Exc Abut 1	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
10. Exc Abut 4	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
10. Exc Abut 4	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

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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2. ESA Fencing; Clear & Grub; Mob	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	170	0.42
2. ESA Fencing; Clear & Grub; Mob	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
2. ESA Fencing; Clear & Grub; Mob	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
2. ESA Fencing; Clear & Grub; Mob	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
2. ESA Fencing; Clear & Grub; Mob	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
4. Ground Impr Abut 1	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
4. Ground Impr Abut 1	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	83.0	0.50
4. Ground Impr Abut 1	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
4. Ground Impr Abut 1	Air Compressors	Diesel	Tier 4 Final	1.00	10.0	37.0	0.48
4. Ground Impr Abut 1	Forklifts	Diesel	Tier 4 Final	1.00	10.0	82.0	0.20
4. Ground Impr Abut 1	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	150	0.36
6. Embankment Grading (Abut 1)	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
6. Embankment Grading (Abut 1)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
6. Embankment Grading (Abut 1)	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
6. Embankment Grading (Abut 1)	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
8. Ground Impr Abut 4	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	10.0	175	0.36
8. Ground Impr Abut 4	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
8. Ground Impr Abut 4	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	83.0	0.50
8. Ground Impr Abut 4	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
8. Ground Impr Abut 4	Air Compressors	Diesel	Tier 4 Final	1.00	10.0	37.0	0.48

8. Ground Impr Abut 4	Forklifts	Diesel	Tier 4 Final	1.00	10.0	82.0	0.20
9. Embankment Grading (Abut 4)	Rollers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
9. Embankment Grading (Abut 4)	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
9. Embankment Grading (Abut 4)	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
9. Embankment Grading (Abut 4)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
1. General Construction	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
1. General Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
1. General Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
1. General Construction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
1. General Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
1. General Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
3. CIDH Piles (Pier 2, 3)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
3. CIDH Piles (Pier 2, 3)	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
3. CIDH Piles (Pier 2, 3)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
3. CIDH Piles (Pier 2, 3)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
5. Column Form, Rebar, Pour (Pier 2, 3)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
13. Erect Falsework	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
15. Cure Deck, Stress Bridge, Strip Falsework	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
16. Riprap (Abut 1 & 4)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
16. Riprap (Abut 1 & 4)	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
17. Sidewalk Barrier Install, Deck Grind	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29

11. CIDH Piles (Abuts 1, 4)	Cranes	Diesel	Tier 4 Final	1.00	6.00	367	0.29
11. CIDH Piles (Abuts 1, 4)	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
11. CIDH Piles (Abuts 1, 4)	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	8.00	83.0	0.50
11. CIDH Piles (Abuts 1, 4)	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
14a. Form, Rebar, Pour (soffit, Stems & decks)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Cranes	Diesel	Average	0.00	6.00	367	0.29
14b. Form, Rebar, Pour (soffit, Stems & decks)	Cranes	Diesel	Average	0.00	6.00	367	0.29
7. Exc Abut 1	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
7. Exc Abut 1	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
10. Exc Abut 4	Rubber Tired Loaders	Diesel	Tier 4 Final	1.00	8.00	150	0.36
10. Exc Abut 4	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
2. ESA Fencing; Clear & Grub; Mob	—	—	—	—
2. ESA Fencing; Clear & Grub; Mob	Worker	0.00	12.0	LDA,LDT1,LDT2
2. ESA Fencing; Clear & Grub; Mob	Vendor	4.00	0.19	HHDT,MHDT
2. ESA Fencing; Clear & Grub; Mob	Hauling	8.00	0.19	HHDT
2. ESA Fencing; Clear & Grub; Mob	Onsite truck	—	—	HHDT
4. Ground Impr Abut 1	—	—	—	—

4. Ground Impr Abut 1	Worker	0.00	12.0	LDA,LDT1,LDT2
4. Ground Impr Abut 1	Vendor	6.00	0.19	HHDT,MHDT
4. Ground Impr Abut 1	Hauling	26.0	0.19	HHDT
4. Ground Impr Abut 1	Onsite truck	—	—	HHDT
6. Embankment Grading (Abut 1)	—	—	—	—
6. Embankment Grading (Abut 1)	Worker	0.00	12.0	LDA,LDT1,LDT2
6. Embankment Grading (Abut 1)	Vendor	4.00	0.19	HHDT,MHDT
6. Embankment Grading (Abut 1)	Hauling	4.00	0.19	HHDT
6. Embankment Grading (Abut 1)	Onsite truck	—	—	HHDT
8. Ground Impr Abut 4	—	—	—	—
8. Ground Impr Abut 4	Worker	0.00	12.0	LDA,LDT1,LDT2
8. Ground Impr Abut 4	Vendor	6.00	0.19	HHDT,MHDT
8. Ground Impr Abut 4	Hauling	26.0	0.19	HHDT
8. Ground Impr Abut 4	Onsite truck	—	—	HHDT
9. Embankment Grading (Abut 4)	—	—	—	—
9. Embankment Grading (Abut 4)	Worker	0.00	12.0	LDA,LDT1,LDT2
9. Embankment Grading (Abut 4)	Vendor	4.00	0.19	HHDT,MHDT
9. Embankment Grading (Abut 4)	Hauling	0.00	20.0	HHDT
9. Embankment Grading (Abut 4)	Onsite truck	—	—	HHDT
1. General Construction	—	—	—	—
1. General Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
1. General Construction	Vendor	0.00	7.63	HHDT,MHDT
1. General Construction	Hauling	0.00	20.0	HHDT
1. General Construction	Onsite truck	—	—	HHDT
3. CIDH Piles (Pier 2, 3)	—	—	—	—
3. CIDH Piles (Pier 2, 3)	Worker	0.00	12.0	LDA,LDT1,LDT2
3. CIDH Piles (Pier 2, 3)	Vendor	338	0.19	HHDT,MHDT

3. CIDH Piles (Pier 2, 3)	Hauling	0.00	20.0	HHDT
3. CIDH Piles (Pier 2, 3)	Onsite truck	0.00	0.00	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	—	—	—	—
5. Column Form, Rebar, Pour (Pier 2, 3)	Worker	0.00	12.0	LDA,LDT1,LDT2
5. Column Form, Rebar, Pour (Pier 2, 3)	Vendor	116	0.19	HHDT,MHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	Hauling	0.00	20.0	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	Onsite truck	0.00	0.00	HHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	—	—	—	—
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Worker	0.00	12.0	LDA,LDT1,LDT2
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Vendor	116	0.19	HHDT,MHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Hauling	0.00	20.0	HHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Onsite truck	0.00	0.00	HHDT
13. Erect Falsework	—	—	—	—
13. Erect Falsework	Worker	0.00	12.0	LDA,LDT1,LDT2
13. Erect Falsework	Vendor	0.00	0.19	HHDT,MHDT
13. Erect Falsework	Hauling	0.00	20.0	HHDT
13. Erect Falsework	Onsite truck	—	—	HHDT
15. Cure Deck, Stress Bridge, Strip Falsework	—	—	—	—
15. Cure Deck, Stress Bridge, Strip Falsework	Worker	0.00	12.0	LDA,LDT1,LDT2

15. Cure Deck, Stress Bridge, Strip Falsework	Vendor	56.0	0.19	HHDT,MHDT
15. Cure Deck, Stress Bridge, Strip Falsework	Hauling	0.00	20.0	HHDT
15. Cure Deck, Stress Bridge, Strip Falsework	Onsite truck	0.00	0.00	HHDT
16. Riprap (Abut 1 & 4)	—	—	—	—
16. Riprap (Abut 1 & 4)	Worker	0.00	12.0	LDA,LDT1,LDT2
16. Riprap (Abut 1 & 4)	Vendor	0.00	7.63	HHDT,MHDT
16. Riprap (Abut 1 & 4)	Hauling	4.00	0.19	HHDT
16. Riprap (Abut 1 & 4)	Onsite truck	—	—	HHDT
17. Sidewalk Barrier Install, Deck Grind	—	—	—	—
17. Sidewalk Barrier Install, Deck Grind	Worker	0.00	12.0	LDA,LDT1,LDT2
17. Sidewalk Barrier Install, Deck Grind	Vendor	56.0	0.19	HHDT,MHDT
17. Sidewalk Barrier Install, Deck Grind	Hauling	0.00	20.0	HHDT
17. Sidewalk Barrier Install, Deck Grind	Onsite truck	0.00	0.00	HHDT
7. Exc Abut 1	—	—	—	—
7. Exc Abut 1	Worker	0.00	12.0	LDA,LDT1,LDT2
7. Exc Abut 1	Vendor	130	0.19	HHDT,MHDT
7. Exc Abut 1	Hauling	6.00	0.19	HHDT
7. Exc Abut 1	Onsite truck	0.00	0.00	HHDT
10. Exc Abut 4	—	—	—	—
10. Exc Abut 4	Worker	0.00	12.0	LDA,LDT1,LDT2
10. Exc Abut 4	Vendor	130	0.19	HHDT,MHDT
10. Exc Abut 4	Hauling	6.00	0.19	HHDT
10. Exc Abut 4	Onsite truck	0.00	0.00	HHDT
11. CIDH Piles (Abuts 1, 4)	—	—	—	—
11. CIDH Piles (Abuts 1, 4)	Worker	0.00	12.0	LDA,LDT1,LDT2
11. CIDH Piles (Abuts 1, 4)	Vendor	338	0.19	HHDT,MHDT

11. CIDH Piles (Abuts 1, 4)	Hauling	0.00	20.0	HHDT
11. CIDH Piles (Abuts 1, 4)	Onsite truck	—	—	HHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	—	—	—	—
14a. Form, Rebar, Pour (soffit, Stems & decks)	Worker	0.00	12.0	LDA,LDT1,LDT2
14a. Form, Rebar, Pour (soffit, Stems & decks)	Vendor	116	0.19	HHDT,MHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	Hauling	0.00	20.0	HHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	Onsite truck	—	—	HHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	—	—	—	—
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Worker	0.00	12.0	LDA,LDT1,LDT2
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Vendor	400	0.19	HHDT,MHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Hauling	0.00	20.0	HHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Onsite truck	—	—	HHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	—	—	—	—
14b. Form, Rebar, Pour (soffit, Stems & decks)	Worker	0.00	12.0	LDA,LDT1,LDT2
14b. Form, Rebar, Pour (soffit, Stems & decks)	Vendor	400	0.19	HHDT,MHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	Hauling	0.00	20.0	HHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
2. ESA Fencing; Clear & Grub; Mob	—	—	—	—
2. ESA Fencing; Clear & Grub; Mob	Worker	0.00	12.0	LDA,LDT1,LDT2
2. ESA Fencing; Clear & Grub; Mob	Vendor	4.00	0.19	HHDT,MHDT
2. ESA Fencing; Clear & Grub; Mob	Hauling	8.00	0.19	HHDT
2. ESA Fencing; Clear & Grub; Mob	Onsite truck	—	—	HHDT
4. Ground Impr Abut 1	—	—	—	—
4. Ground Impr Abut 1	Worker	0.00	12.0	LDA,LDT1,LDT2
4. Ground Impr Abut 1	Vendor	6.00	0.19	HHDT,MHDT
4. Ground Impr Abut 1	Hauling	26.0	0.19	HHDT
4. Ground Impr Abut 1	Onsite truck	—	—	HHDT
6. Embankment Grading (Abut 1)	—	—	—	—
6. Embankment Grading (Abut 1)	Worker	0.00	12.0	LDA,LDT1,LDT2
6. Embankment Grading (Abut 1)	Vendor	4.00	0.19	HHDT,MHDT
6. Embankment Grading (Abut 1)	Hauling	4.00	0.19	HHDT
6. Embankment Grading (Abut 1)	Onsite truck	—	—	HHDT
8. Ground Impr Abut 4	—	—	—	—
8. Ground Impr Abut 4	Worker	0.00	12.0	LDA,LDT1,LDT2
8. Ground Impr Abut 4	Vendor	6.00	0.19	HHDT,MHDT
8. Ground Impr Abut 4	Hauling	26.0	0.19	HHDT
8. Ground Impr Abut 4	Onsite truck	—	—	HHDT
9. Embankment Grading (Abut 4)	—	—	—	—
9. Embankment Grading (Abut 4)	Worker	0.00	12.0	LDA,LDT1,LDT2
9. Embankment Grading (Abut 4)	Vendor	4.00	0.19	HHDT,MHDT
9. Embankment Grading (Abut 4)	Hauling	0.00	20.0	HHDT
9. Embankment Grading (Abut 4)	Onsite truck	—	—	HHDT

1. General Construction	—	—	—	—
1. General Construction	Worker	0.00	12.0	LDA,LDT1,LDT2
1. General Construction	Vendor	0.00	7.63	HHDT,MHDT
1. General Construction	Hauling	0.00	20.0	HHDT
1. General Construction	Onsite truck	—	—	HHDT
3. CIDH Piles (Pier 2, 3)	—	—	—	—
3. CIDH Piles (Pier 2, 3)	Worker	0.00	12.0	LDA,LDT1,LDT2
3. CIDH Piles (Pier 2, 3)	Vendor	338	0.19	HHDT,MHDT
3. CIDH Piles (Pier 2, 3)	Hauling	0.00	20.0	HHDT
3. CIDH Piles (Pier 2, 3)	Onsite truck	0.00	0.00	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	—	—	—	—
5. Column Form, Rebar, Pour (Pier 2, 3)	Worker	0.00	12.0	LDA,LDT1,LDT2
5. Column Form, Rebar, Pour (Pier 2, 3)	Vendor	116	0.19	HHDT,MHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	Hauling	0.00	20.0	HHDT
5. Column Form, Rebar, Pour (Pier 2, 3)	Onsite truck	0.00	0.00	HHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	—	—	—	—
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Worker	0.00	12.0	LDA,LDT1,LDT2
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Vendor	116	0.19	HHDT,MHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Hauling	0.00	20.0	HHDT
12a. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Onsite truck	0.00	0.00	HHDT
13. Erect Falsework	—	—	—	—

13. Erect Falsework	Worker	0.00	12.0	LDA,LDT1,LDT2
13. Erect Falsework	Vendor	0.00	0.19	HHDT,MHDT
13. Erect Falsework	Hauling	0.00	20.0	HHDT
13. Erect Falsework	Onsite truck	—	—	HHDT
15. Cure Deck, Stress Bridge, Strip Falsework	—	—	—	—
15. Cure Deck, Stress Bridge, Strip Falsework	Worker	0.00	12.0	LDA,LDT1,LDT2
15. Cure Deck, Stress Bridge, Strip Falsework	Vendor	56.0	0.19	HHDT,MHDT
15. Cure Deck, Stress Bridge, Strip Falsework	Hauling	0.00	20.0	HHDT
15. Cure Deck, Stress Bridge, Strip Falsework	Onsite truck	0.00	0.00	HHDT
16. Riprap (Abut 1 & 4)	—	—	—	—
16. Riprap (Abut 1 & 4)	Worker	0.00	12.0	LDA,LDT1,LDT2
16. Riprap (Abut 1 & 4)	Vendor	0.00	7.63	HHDT,MHDT
16. Riprap (Abut 1 & 4)	Hauling	4.00	0.19	HHDT
16. Riprap (Abut 1 & 4)	Onsite truck	—	—	HHDT
17. Sidewalk Barrier Install, Deck Grind	—	—	—	—
17. Sidewalk Barrier Install, Deck Grind	Worker	0.00	12.0	LDA,LDT1,LDT2
17. Sidewalk Barrier Install, Deck Grind	Vendor	56.0	0.19	HHDT,MHDT
17. Sidewalk Barrier Install, Deck Grind	Hauling	0.00	20.0	HHDT
17. Sidewalk Barrier Install, Deck Grind	Onsite truck	0.00	0.00	HHDT
7. Exc Abut 1	—	—	—	—
7. Exc Abut 1	Worker	0.00	12.0	LDA,LDT1,LDT2
7. Exc Abut 1	Vendor	130	0.19	HHDT,MHDT
7. Exc Abut 1	Hauling	6.00	0.19	HHDT
7. Exc Abut 1	Onsite truck	0.00	0.00	HHDT

10. Exc Abut 4	—	—	—	—
10. Exc Abut 4	Worker	0.00	12.0	LDA,LDT1,LDT2
10. Exc Abut 4	Vendor	130	0.19	HHDT,MHDT
10. Exc Abut 4	Hauling	6.00	0.19	HHDT
10. Exc Abut 4	Onsite truck	0.00	0.00	HHDT
11. CIDH Piles (Abuts 1, 4)	—	—	—	—
11. CIDH Piles (Abuts 1, 4)	Worker	0.00	12.0	LDA,LDT1,LDT2
11. CIDH Piles (Abuts 1, 4)	Vendor	338	0.19	HHDT,MHDT
11. CIDH Piles (Abuts 1, 4)	Hauling	0.00	20.0	HHDT
11. CIDH Piles (Abuts 1, 4)	Onsite truck	—	—	HHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	—	—	—	—
14a. Form, Rebar, Pour (soffit, Stems & decks)	Worker	0.00	12.0	LDA,LDT1,LDT2
14a. Form, Rebar, Pour (soffit, Stems & decks)	Vendor	116	0.19	HHDT,MHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	Hauling	0.00	20.0	HHDT
14a. Form, Rebar, Pour (soffit, Stems & decks)	Onsite truck	—	—	HHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	—	—	—	—
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Worker	0.00	12.0	LDA,LDT1,LDT2
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Vendor	400	0.19	HHDT,MHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Hauling	0.00	20.0	HHDT
12b. Form, Rebar, Pour (Abut 1 & 4 Ftg, Stem, Walls)	Onsite truck	—	—	HHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	—	—	—	—

14b. Form, Rebar, Pour (soffit, Stems & decks)	Worker	0.00	12.0	LDA,LDT1,LDT2
14b. Form, Rebar, Pour (soffit, Stems & decks)	Vendor	400	0.19	HHDT,MHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	Hauling	0.00	20.0	HHDT
14b. Form, Rebar, Pour (soffit, Stems & decks)	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)
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
2. ESA Fencing; Clear & Grub; Mob	—	—	32.0	0.00	—
4. Ground Impr Abut 1	1,500	1,500	0.00	0.00	—
6. Embankment Grading (Abut 1)	—	—	3.00	0.00	—
8. Ground Impr Abut 4	1,500	1,500	0.00	0.00	—
9. Embankment Grading (Abut 4)	—	—	3.00	0.00	—
7. Exc Abut 1	—	500	0.00	0.00	—

10. Exc Abut 4	—	500	0.00	0.00	—
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5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Industrial	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	589	0.03	< 0.005
2026	0.00	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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5
Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	64.5

Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2
Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396
Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—
Auto Access	26.42114718

Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251
Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537
Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2
Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6
Life Expectancy at Birth	51.7

Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—
Wildfire Risk	57.5
SLR Inundation Area	0.0
Children	87.0
Elderly	73.1
English Speaking	54.0
Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—
Hardship	21.0

Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	Project footprint estimated to be approx 1.5 acres.
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Off-Road Equipment	Construction assumptions provided by project engineers.
Construction: Dust From Material Movement	Construction assumptions provided by project engineers.

Construction: Trips and VMT

Construction assumptions provided by project engineers. Zeroed out worker trips as they are passenger vehicles and not diesel fueled vehicles. Reduced truck trips to 0.19 miles to represent "on-site" emissions.

Fenton Construction Phase 2 - CIP HRA Detailed Report

Off-Site Improvements

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Fenton Construction Phase 2 - CIP HRA
Construction Start Date	2/11/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	19.8
Location	Fenton Pkwy, San Diego, CA 92108, USA
County	San Diego
City	San Diego
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6340
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.21

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
Road Construction	0.10	Mile	0.15	0.00	—	—	—	—

Other Non-Asphalt Surfaces	0.15	Acre	0.15	0.00	0.00	—	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.70	3.06	27.7	30.9	0.06	1.09	3.27	4.36	1.00	0.36	1.36	—	6,869	6,869	0.33	0.11	0.01	6,911
Mit.	0.83	0.75	8.71	39.3	0.06	0.17	3.27	3.39	0.16	0.36	0.48	—	6,869	6,869	0.33	0.11	0.01	6,911
% Reduced	78%	75%	69%	-27%	—	84%	—	22%	84%	—	65%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.19	1.69	1.91	< 0.005	0.07	0.19	0.26	0.06	0.02	0.08	—	427	427	0.02	0.01	< 0.005	429
Mit.	0.06	0.06	0.50	2.45	< 0.005	0.01	0.19	0.20	0.01	0.02	0.03	—	427	427	0.02	0.01	< 0.005	429
% Reduced	76%	71%	71%	-28%	—	85%	—	22%	84%	—	63%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.04	0.31	0.35	< 0.005	0.01	0.04	0.05	0.01	< 0.005	0.02	—	70.6	70.6	< 0.005	< 0.005	< 0.005	71.0

Mit.	0.01	0.01	0.09	0.45	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	0.01	—	70.6	70.6	< 0.005	< 0.005	< 0.005	71.0
% Reduced	76%	71%	71%	-28%	—	85%	—	22%	84%	—	63%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.70	3.06	27.7	30.9	0.06	1.09	3.27	4.36	1.00	0.36	1.36	—	6,869	6,869	0.33	0.11	0.01	6,911
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.23	0.19	1.69	1.91	< 0.005	0.07	0.19	0.26	0.06	0.02	0.08	—	427	427	0.02	0.01	< 0.005	429
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.04	0.31	0.35	< 0.005	0.01	0.04	0.05	0.01	< 0.005	0.02	—	70.6	70.6	< 0.005	< 0.005	< 0.005	71.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.83	0.75	8.71	39.3	0.06	0.17	3.27	3.39	0.16	0.36	0.48	—	6,869	6,869	0.33	0.11	0.01	6,911

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.06	0.06	0.50	2.45	< 0.005	0.01	0.19	0.20	0.01	0.02	0.03	—	427	427	0.02	0.01	< 0.005	429
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.09	0.45	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	0.01	—	70.6	70.6	< 0.005	< 0.005	< 0.005	71.0

3. Construction Emissions Details

3.1. 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	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
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	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.03	4.03	< 0.005	< 0.005	—	4.04

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.67	0.67	< 0.005	< 0.005	—	0.67
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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
Hauling	0.01	0.01	0.19	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.5	28.5	0.01	< 0.005	< 0.005	30.0
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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.25
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	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Hauling	< 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
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3.2. 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	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
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	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.03	4.03	< 0.005	< 0.005	—	4.04
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.67	0.67	< 0.005	< 0.005	—	0.67

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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
Hauling	0.01	0.01	0.19	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.5	28.5	0.01	< 0.005	< 0.005	30.0
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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.25
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	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Hauling	< 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

3.3. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.52	2.96	25.2	29.1	0.06	1.09	—	1.09	1.00	—	1.00	—	6,495	6,495	0.26	0.05	—	6,517
Dust From Material Movement	—	—	—	—	—	—	3.24	3.24	—	0.35	0.35	—	—	—	—	—	—	—
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	0.12	0.10	0.83	0.96	< 0.005	0.04	—	0.04	0.03	—	0.03	—	214	214	0.01	< 0.005	—	214
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	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	0.15	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.4	35.4	< 0.005	< 0.005	—	35.5
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
Hauling	0.17	0.09	2.53	1.73	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	371	371	0.07	0.06	0.01	391
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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Hauling	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	< 0.005	12.8
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	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.00	2.00	< 0.005	< 0.005	< 0.005	2.11

3.4. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.66	6.16	37.5	0.06	0.12	—	0.12	0.12	—	0.12	—	6,495	6,495	0.26	0.05	—	6,517

Dust From Material Movement	—	—	—	—	—	—	3.24	3.24	—	0.35	0.35	—	—	—	—	—	—	—
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	0.20	1.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	214	214	0.01	< 0.005	—	214
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	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	< 0.005	< 0.005	0.04	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.4	35.4	< 0.005	< 0.005	—	35.5
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
Hauling	0.17	0.09	2.53	1.73	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	371	371	0.07	0.06	0.01	391

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	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Hauling	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	< 0.005	12.8
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	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.00	2.00	< 0.005	< 0.005	< 0.005	2.11

3.5. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85	2.39	21.2	23.3	0.05	0.83	—	0.83	0.76	—	0.76	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	2.66	2.66	—	0.29	0.29	—	—	—	—	—	—	—
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	0.07	0.64	0.70	< 0.005	0.02	—	0.02	0.02	—	0.02	—	172	172	0.01	< 0.005	—	172

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Dust From Material Movement:	—	—	—	—	—	—	0.08	0.08	—	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	0.01	0.12	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.4	28.4	< 0.005	< 0.005	—	28.5
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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
Hauling	0.01	0.01	0.19	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.5	28.5	0.01	< 0.005	< 0.005	30.0
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	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.90
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
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3.6. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.74	5.12	31.6	0.05	0.17	—	0.17	0.16	—	0.16	—	5,693	5,693	0.23	0.05	—	5,712
Dust From Material Movement	—	—	—	—	—	—	2.66	2.66	—	0.29	0.29	—	—	—	—	—	—	—
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	0.95	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	172	172	0.01	< 0.005	—	172
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	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	< 0.005	< 0.005	0.03	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.4	28.4	< 0.005	< 0.005	—	28.5

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	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
Hauling	0.01	0.01	0.19	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.5	28.5	0.01	< 0.005	< 0.005	30.0
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	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.90
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15

3.7. 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	1.00	0.84	7.37	10.8	0.01	0.30	—	0.30	0.28	—	0.28	—	1,619	1,619	0.07	0.01	—	1,625
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	—	22.2	22.2	< 0.005	< 0.005	—	22.3
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	—	3.67	3.67	< 0.005	< 0.005	—	3.68
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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
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	—	0.05	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
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

3.8. 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	0.18	0.18	2.58	11.3	0.01	0.03	—	0.03	0.03	—	0.03	—	1,619	1,619	0.07	0.01	—	1,625
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	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.2	22.2	< 0.005	< 0.005	—	22.3
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.67	3.67	< 0.005	< 0.005	—	3.68

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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
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	—	0.05	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
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

3.9. Architectural Coating (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	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	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	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architectural Coatings	—	< 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	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30
Architectural Coatings	—	< 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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
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	—	0.05	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
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

3.10. Architectural Coating (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	0.02	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	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	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.83	1.83	< 0.005	< 0.005	—	1.84
Architect ural Coatings	—	< 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	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.30	0.30	< 0.005	< 0.005	—	0.30
Architect ural Coatings	—	< 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	—	3.36	3.36	< 0.005	< 0.005	< 0.005	3.53
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	—	0.05	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
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	< 0.005	—	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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	2/9/2026	2/11/2026	5.00	3.00	—

Linear, Grading & Excavation	Linear, Grading & Excavation	2/12/2026	2/27/2026	5.00	12.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	3/2/2026	3/16/2026	5.00	11.0	—
Linear, Paving	Linear, Paving	3/17/2026	3/23/2026	5.00	5.00	—
Architectural Coating	Architectural Coating	3/24/2026	3/30/2026	5.00	5.00	—

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
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, Grubbing & Land Clearing	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Linear, Grading & Excavation	Excavators	Diesel	Average	3.00	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	2.00	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	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82

Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	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	2.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	2.00	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	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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, Grubbing & Land Clearing	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
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	3.00	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	2.00	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	2.00	8.00	423	0.48
Linear, Grading & Excavation	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Air Compressors	Diesel	Tier 4 Final	1.00	8.00	37.0	0.48
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	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	2.00	8.00	423	0.48

Linear, Drainage, Utilities, & Sub-Grade	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	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	3.00	8.00	36.0	0.38
Linear, Paving	Signal Boards	Electric	Average	0.00	8.00	6.00	0.82
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	0.19	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	0.19	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	12.0	0.19	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	0.19	HHDT,MHDT
Linear, Grading & Excavation	Hauling	156	0.19	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	0.19	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	12.0	0.19	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	0.19	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	0.19	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	0.00	12.0	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	2.00	0.19	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	12.0	0.19	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	0.19	HHDT,MHDT
Linear, Grading & Excavation	Hauling	156	0.19	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	0.19	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	12.0	0.19	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	0.19	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	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	0.00	0.00	0.00	0.00	392

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)
Linear, Grubbing & Land Clearing	—	250	0.15	0.00	—
Linear, Grading & Excavation	13,400	200	0.15	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	1,036	—	0.15	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Road Construction	0.15	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	0.00	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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	7.50	annual days of extreme heat
Extreme Precipitation	2.70	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.64	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	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 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	37.6
AQ-PM	44.5
AQ-DPM	45.5
Drinking Water	29.0
Lead Risk Housing	21.4
Pesticides	0.00
Toxic Releases	35.8
Traffic	55.5
Effect Indicators	—
CleanUp Sites	33.9

Groundwater	64.5
Haz Waste Facilities/Generators	87.7
Impaired Water Bodies	72.2
Solid Waste	0.00
Sensitive Population	—
Asthma	27.1
Cardio-vascular	4.32
Low Birth Weights	20.9
Socioeconomic Factor Indicators	—
Education	16.8
Housing	30.2
Linguistic	22.2
Poverty	15.6
Unemployment	72.5

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	58.91184396
Employed	48.77454125
Median HI	71.4744001
Education	—
Bachelor's or higher	75.77312973
High school enrollment	100
Preschool enrollment	88.27152573
Transportation	—

Auto Access	26.42114718
Active commuting	41.99923008
Social	—
2-parent households	74.72090337
Voting	67.3681509
Neighborhood	—
Alcohol availability	81.09842166
Park access	81.35506224
Retail density	19.41485949
Supermarket access	2.399589375
Tree canopy	35.94251251
Housing	—
Homeownership	34.7747979
Housing habitability	66.35442063
Low-inc homeowner severe housing cost burden	65.0455537
Low-inc renter severe housing cost burden	68.13807263
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	71.87219299
Arthritis	89.2
Asthma ER Admissions	73.3
High Blood Pressure	94.0
Cancer (excluding skin)	55.0
Asthma	72.9
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6

Life Expectancy at Birth	51.7
Cognitively Disabled	36.6
Physically Disabled	77.4
Heart Attack ER Admissions	89.3
Mental Health Not Good	69.9
Chronic Kidney Disease	90.3
Obesity	79.9
Pedestrian Injuries	19.6
Physical Health Not Good	90.6
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	2.4
Current Smoker	68.2
No Leisure Time for Physical Activity	83.8
Climate Change Exposures	—
Wildfire Risk	57.5
SLR Inundation Area	0.0
Children	87.0
Elderly	73.1
English Speaking	54.0
Foreign-born	27.7
Outdoor Workers	56.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	31.6
Traffic Density	37.9
Traffic Access	48.8
Other Indices	—

Hardship	21.0
Other Decision Support	—
2016 Voting	74.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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
Construction: Construction Phases	Construction assumptions provided by project engineers.
Construction: Trips and VMT	Workers included for architectural coating phase. Worker trips zeroed out because they are not a source of DPM. Truck trips reduced to 0.19 miles to reflect "on-site" emissions.
Construction: Paving	Paving only required once.

Appendix B

Health Risk Assessment Output Files


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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/21/2023
** File: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\Fenton Parkway
Construction2\Fenton Parkway Construction2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\Desktop\HARP2\HARP\Fenton Parkway Bridge Project EIR\
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 3276208 San_Diego_County
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL "Fenton Parkway Construction2.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 Construction
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 36
** 488140.919, 3626727.954, 16.67, 5.00, 4.65
** 488161.223, 3626687.345, 16.62, 5.00, 4.65
** 488176.977, 3626676.842, 14.91, 5.00, 4.65

```

** 488181.878, 3626660.739, 12.47, 5.00, 4.65
 ** 488192.730, 3626658.988, 12.46, 5.00, 4.65
 ** 488224.237, 3626578.470, 12.88, 5.00, 4.65
 ** 488217.236, 3626567.618, 13.37, 5.00, 4.65
 ** 488220.737, 3626550.464, 19.28, 5.00, 4.65
 ** 488231.939, 3626534.360, 19.92, 5.00, 4.65
 ** 488236.140, 3626530.510, 20.10, 5.00, 4.65
 ** 488239.991, 3626542.762, 20.00, 5.00, 4.65
 ** 488231.239, 3626554.315, 20.17, 5.00, 4.65
 ** 488242.441, 3626562.717, 17.22, 5.00, 4.65
 ** 488231.239, 3626568.668, 15.48, 5.00, 4.65
 ** 488237.190, 3626580.921, 14.09, 5.00, 4.65
 ** 488203.233, 3626663.539, 12.94, 5.00, 4.65
 ** 488205.333, 3626669.491, 12.91, 5.00, 4.65
 ** 488197.631, 3626695.397, 15.03, 5.00, 4.65
 ** 488230.189, 3626708.700, 14.91, 5.00, 4.65
 ** 488242.791, 3626717.452, 15.07, 5.00, 4.65
 ** 488214.435, 3626725.503, 15.24, 5.00, 4.65
 ** 488195.881, 3626720.952, 15.26, 5.00, 4.65
 ** 488186.079, 3626733.905, 15.32, 5.00, 4.65
 ** 488179.077, 3626736.006, 15.36, 5.00, 4.65
 ** 488154.922, 3626722.353, 15.28, 5.00, 4.65
 ** 488168.225, 3626696.447, 15.38, 5.00, 4.65
 ** 488181.178, 3626686.295, 14.72, 5.00, 4.65
 ** 488189.229, 3626669.841, 14.05, 5.00, 4.65
 ** 488196.931, 3626671.941, 13.13, 5.00, 4.65
 ** 488187.479, 3626701.348, 15.03, 5.00, 4.65
 ** 488224.237, 3626714.301, 15.19, 5.00, 4.65
 ** 488215.135, 3626717.802, 15.19, 5.00, 4.65
 ** 488186.079, 3626711.500, 15.03, 5.00, 4.65
 ** 488180.477, 3626724.803, 15.28, 5.00, 4.65
 ** 488167.174, 3626718.152, 15.26, 5.00, 4.65
 ** 488179.077, 3626701.698, 15.07, 5.00, 4.65

** -----

LOCATION L0000001	VOLUME	488143.155	3626723.482	15.92
LOCATION L0000002	VOLUME	488147.627	3626714.537	15.09
LOCATION L0000003	VOLUME	488152.099	3626705.593	14.53
LOCATION L0000004	VOLUME	488156.571	3626696.649	15.34
LOCATION L0000005	VOLUME	488161.043	3626687.705	15.86
LOCATION L0000006	VOLUME	488169.209	3626682.021	15.57
LOCATION L0000007	VOLUME	488177.170	3626676.207	14.90
LOCATION L0000008	VOLUME	488180.082	3626666.640	14.14
LOCATION L0000009	VOLUME	488185.660	3626660.129	13.45
LOCATION L0000010	VOLUME	488193.765	3626656.345	12.97
LOCATION L0000011	VOLUME	488197.409	3626647.033	12.61
LOCATION L0000012	VOLUME	488201.053	3626637.720	12.32
LOCATION L0000013	VOLUME	488204.697	3626628.408	12.01
LOCATION L0000014	VOLUME	488208.341	3626619.095	11.76
LOCATION L0000015	VOLUME	488211.985	3626609.783	11.72
LOCATION L0000016	VOLUME	488215.629	3626600.470	12.08

LOCATION	L0000017	VOLUME	488219.273	3626591.158	12.42
LOCATION	L0000018	VOLUME	488222.917	3626581.846	12.75
LOCATION	L0000019	VOLUME	488220.781	3626573.113	14.43
LOCATION	L0000020	VOLUME	488217.928	3626564.227	15.85
LOCATION	L0000021	VOLUME	488219.927	3626554.429	17.96
LOCATION	L0000022	VOLUME	488224.136	3626545.577	19.54
LOCATION	L0000023	VOLUME	488229.847	3626537.368	20.32
LOCATION	L0000024	VOLUME	488236.331	3626531.118	20.29
LOCATION	L0000025	VOLUME	488239.329	3626540.657	20.27
LOCATION	L0000026	VOLUME	488235.285	3626548.975	20.28
LOCATION	L0000027	VOLUME	488233.879	3626556.295	19.17
LOCATION	L0000028	VOLUME	488241.879	3626562.295	18.49
LOCATION	L0000029	VOLUME	488234.231	3626567.079	16.95
LOCATION	L0000030	VOLUME	488234.128	3626574.616	15.38
LOCATION	L0000031	VOLUME	488236.053	3626583.687	14.11
LOCATION	L0000032	VOLUME	488232.252	3626592.936	12.96
LOCATION	L0000033	VOLUME	488228.450	3626602.185	12.29
LOCATION	L0000034	VOLUME	488224.649	3626611.434	11.95
LOCATION	L0000035	VOLUME	488220.847	3626620.683	12.05
LOCATION	L0000036	VOLUME	488217.046	3626629.933	12.24
LOCATION	L0000037	VOLUME	488213.244	3626639.182	12.47
LOCATION	L0000038	VOLUME	488209.442	3626648.431	12.59
LOCATION	L0000039	VOLUME	488205.641	3626657.680	12.67
LOCATION	L0000040	VOLUME	488204.452	3626666.996	12.78
LOCATION	L0000041	VOLUME	488203.237	3626676.540	13.05
LOCATION	L0000042	VOLUME	488200.388	3626686.125	13.85
LOCATION	L0000043	VOLUME	488197.935	3626695.521	14.51
LOCATION	L0000044	VOLUME	488207.192	3626699.303	14.62
LOCATION	L0000045	VOLUME	488216.449	3626703.085	14.84
LOCATION	L0000046	VOLUME	488225.706	3626706.868	14.96
LOCATION	L0000047	VOLUME	488234.425	3626711.641	15.13
LOCATION	L0000048	VOLUME	488242.639	3626717.345	15.29
LOCATION	L0000049	VOLUME	488233.351	3626720.132	15.13
LOCATION	L0000050	VOLUME	488223.731	3626722.864	15.11
LOCATION	L0000051	VOLUME	488214.108	3626725.423	15.18
LOCATION	L0000052	VOLUME	488204.396	3626723.041	15.20
LOCATION	L0000053	VOLUME	488195.137	3626721.935	15.21
LOCATION	L0000054	VOLUME	488189.103	3626729.909	15.29
LOCATION	L0000055	VOLUME	488181.301	3626735.339	15.35
LOCATION	L0000056	VOLUME	488172.392	3626732.227	15.28
LOCATION	L0000057	VOLUME	488163.687	3626727.307	15.09
LOCATION	L0000058	VOLUME	488154.981	3626722.386	14.88
LOCATION	L0000059	VOLUME	488159.459	3626713.518	14.82
LOCATION	L0000060	VOLUME	488164.027	3626704.622	14.82
LOCATION	L0000061	VOLUME	488168.862	3626695.947	15.18
LOCATION	L0000062	VOLUME	488176.733	3626689.778	15.01
LOCATION	L0000063	VOLUME	488183.091	3626682.385	14.60
LOCATION	L0000064	VOLUME	488187.486	3626673.403	14.04
LOCATION	L0000065	VOLUME	488195.051	3626671.429	13.41
LOCATION	L0000066	VOLUME	488194.467	3626679.606	13.81

LOCATION	L0000067	VOLUME	488191.407	3626689.127	14.41
LOCATION	L0000068	VOLUME	488188.347	3626698.647	14.86
LOCATION	L0000069	VOLUME	488194.235	3626703.728	15.01
LOCATION	L0000070	VOLUME	488203.666	3626707.052	15.07
LOCATION	L0000071	VOLUME	488213.098	3626710.376	15.05
LOCATION	L0000072	VOLUME	488222.529	3626713.699	15.04
LOCATION	L0000073	VOLUME	488216.594	3626717.241	15.10
LOCATION	L0000074	VOLUME	488206.890	3626716.013	15.13
LOCATION	L0000075	VOLUME	488197.117	3626713.894	15.14
LOCATION	L0000076	VOLUME	488187.344	3626711.775	15.14
LOCATION	L0000077	VOLUME	488182.701	3626719.523	15.21
LOCATION	L0000078	VOLUME	488176.657	3626722.893	15.25
LOCATION	L0000079	VOLUME	488167.713	3626718.421	15.04
LOCATION	L0000080	VOLUME	488172.683	3626710.537	15.05
LOCATION	L0000081	VOLUME	488178.544	3626702.435	15.06

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000001	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000002	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000003	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000004	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000005	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000006	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000007	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000008	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000009	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000010	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000011	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000012	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000013	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000014	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000015	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000016	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000017	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000018	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000019	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000020	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000021	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000022	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000023	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000024	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000025	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000026	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000027	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000028	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000029	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000030	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000031	0.012345679	5.00	4.65	4.65
SRCPARAM	L0000032	0.012345679	5.00	4.65	4.65

URBANSRC ALL
SRCGROUP ALL
SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING
INCLUDED "Fenton Parkway Construction2.rou"
RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING
SURFFILE "SDAPCD Kearny MetData\KVR_2019-2021_v22112.SFC"
PROFFILE "SDAPCD Kearny MetData\KVR_2019-2021_v22112.PFL"
SURFDATA 93107 2019
UAIRDATA 3190 2019
SITEDATA 72293 2019
PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
** Auto-Generated Plotfiles
PLOTFILE 1 ALL 1ST "FENTON PARKWAY CONSTRUCTION2.AD\01H1GALL.PLT" 31
PLOTFILE PERIOD ALL "FENTON PARKWAY CONSTRUCTION2.AD\PE00GALL.PLT" 32
SUMMFILE "Fenton Parkway Construction2.sum"

OU FINISHED

*** Message Summary For AERMOD Model Setup ***

----- Summary of Total Messages -----

A Total of	0	Fatal Error Message(s)
A Total of	1	Warning Message(s)
A Total of	0	Informational Message(s)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W403 275 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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 81 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.
- * CCVR_Sub - Meteorological data includes CCVR 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: 81 Source(s); 1 Source Group(s); and 1266

Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 81 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) = 132.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Fenton Parkway Construction2.err

**File for Summary of Results: Fenton Parkway Construction2.sum

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000001	0	0.12346E-01	488143.2	3626723.5		15.9	5.00	4.65
4.65 YES			NO					
L0000002	0	0.12346E-01	488147.6	3626714.5		15.1	5.00	4.65
4.65 YES			NO					
L0000003	0	0.12346E-01	488152.1	3626705.6		14.5	5.00	4.65
4.65 YES			NO					
L0000004	0	0.12346E-01	488156.6	3626696.6		15.3	5.00	4.65
4.65 YES			NO					
L0000005	0	0.12346E-01	488161.0	3626687.7		15.9	5.00	4.65
4.65 YES			NO					
L0000006	0	0.12346E-01	488169.2	3626682.0		15.6	5.00	4.65
4.65 YES			NO					
L0000007	0	0.12346E-01	488177.2	3626676.2		14.9	5.00	4.65
4.65 YES			NO					
L0000008	0	0.12346E-01	488180.1	3626666.6		14.1	5.00	4.65
4.65 YES			NO					
L0000009	0	0.12346E-01	488185.7	3626660.1		13.5	5.00	4.65
4.65 YES			NO					
L0000010	0	0.12346E-01	488193.8	3626656.3		13.0	5.00	4.65
4.65 YES			NO					
L0000011	0	0.12346E-01	488197.4	3626647.0		12.6	5.00	4.65
4.65 YES			NO					
L0000012	0	0.12346E-01	488201.1	3626637.7		12.3	5.00	4.65
4.65 YES			NO					
L0000013	0	0.12346E-01	488204.7	3626628.4		12.0	5.00	4.65
4.65 YES			NO					
L0000014	0	0.12346E-01	488208.3	3626619.1		11.8	5.00	4.65
4.65 YES			NO					
L0000015	0	0.12346E-01	488212.0	3626609.8		11.7	5.00	4.65
4.65 YES			NO					
L0000016	0	0.12346E-01	488215.6	3626600.5		12.1	5.00	4.65
4.65 YES			NO					

L0000017	0	0.12346E-01	488219.3	3626591.2	12.4	5.00	4.65
4.65 YES		NO					
L0000 018	0	0.12346E-01	488222.9	3626581.8	12.8	5.00	4.65
4.65 YES		NO					
L0000 019	0	0.12346E-01	488220.8	3626573.1	14.4	5.00	4.65
4.65 YES		NO					
L0000 020	0	0.12346E-01	488217.9	3626564.2	15.9	5.00	4.65
4.65 YES		NO					
L0000 021	0	0.12346E-01	488219.9	3626554.4	18.0	5.00	4.65
4.65 YES		NO					
L0000 022	0	0.12346E-01	488224.1	3626545.6	19.5	5.00	4.65
4.65 YES		NO					
L0000 023	0	0.12346E-01	488229.8	3626537.4	20.3	5.00	4.65
4.65 YES		NO					
L0000 024	0	0.12346E-01	488236.3	3626531.1	20.3	5.00	4.65
4.65 YES		NO					
L0000 025	0	0.12346E-01	488239.3	3626540.7	20.3	5.00	4.65
4.65 YES		NO					
L0000 026	0	0.12346E-01	488235.3	3626549.0	20.3	5.00	4.65
4.65 YES		NO					
L0000 027	0	0.12346E-01	488233.9	3626556.3	19.2	5.00	4.65
4.65 YES		NO					
L0000 028	0	0.12346E-01	488241.9	3626562.3	18.5	5.00	4.65
4.65 YES		NO					
L0000 029	0	0.12346E-01	488234.2	3626567.1	16.9	5.00	4.65
4.65 YES		NO					
L0000 030	0	0.12346E-01	488234.1	3626574.6	15.4	5.00	4.65
4.65 YES		NO					
L0000 031	0	0.12346E-01	488236.1	3626583.7	14.1	5.00	4.65
4.65 YES		NO					
L0000 032	0	0.12346E-01	488232.3	3626592.9	13.0	5.00	4.65
4.65 YES		NO					
L0000 033	0	0.12346E-01	488228.5	3626602.2	12.3	5.00	4.65
4.65 YES		NO					
L0000 034	0	0.12346E-01	488224.6	3626611.4	12.0	5.00	4.65
4.65 YES		NO					
L0000 035	0	0.12346E-01	488220.8	3626620.7	12.1	5.00	4.65
4.65 YES		NO					
L0000 036	0	0.12346E-01	488217.0	3626629.9	12.2	5.00	4.65
4.65 YES		NO					
L0000 037	0	0.12346E-01	488213.2	3626639.2	12.5	5.00	4.65
4.65 YES		NO					
L0000 038	0	0.12346E-01	488209.4	3626648.4	12.6	5.00	4.65
4.65 YES		NO					
L0000 039	0	0.12346E-01	488205.6	3626657.7	12.7	5.00	4.65
4.65 YES		NO					
L0000 040	0	0.12346E-01	488204.5	3626667.0	12.8	5.00	4.65
4.65 YES		NO					

*** AERMOD - VERSION 23132 ***
 Parkway Bridge Project EIR\ ***

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 *** 11:15:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0000041	0	0.12346E-01	488203.2	3626676.5	13.1	5.00	4.65	
4.65 YES			NO					
L0000042	0	0.12346E-01	488200.4	3626686.1	13.9	5.00	4.65	
4.65 YES			NO					
L0000043	0	0.12346E-01	488197.9	3626695.5	14.5	5.00	4.65	
4.65 YES			NO					
L0000044	0	0.12346E-01	488207.2	3626699.3	14.6	5.00	4.65	
4.65 YES			NO					
L0000045	0	0.12346E-01	488216.4	3626703.1	14.8	5.00	4.65	
4.65 YES			NO					
L0000046	0	0.12346E-01	488225.7	3626706.9	15.0	5.00	4.65	
4.65 YES			NO					
L0000047	0	0.12346E-01	488234.4	3626711.6	15.1	5.00	4.65	
4.65 YES			NO					
L0000048	0	0.12346E-01	488242.6	3626717.3	15.3	5.00	4.65	
4.65 YES			NO					
L0000049	0	0.12346E-01	488233.4	3626720.1	15.1	5.00	4.65	
4.65 YES			NO					
L0000050	0	0.12346E-01	488223.7	3626722.9	15.1	5.00	4.65	
4.65 YES			NO					
L0000051	0	0.12346E-01	488214.1	3626725.4	15.2	5.00	4.65	
4.65 YES			NO					
L0000052	0	0.12346E-01	488204.4	3626723.0	15.2	5.00	4.65	
4.65 YES			NO					
L0000053	0	0.12346E-01	488195.1	3626721.9	15.2	5.00	4.65	
4.65 YES			NO					
L0000054	0	0.12346E-01	488189.1	3626729.9	15.3	5.00	4.65	
4.65 YES			NO					
L0000055	0	0.12346E-01	488181.3	3626735.3	15.4	5.00	4.65	
4.65 YES			NO					
L0000056	0	0.12346E-01	488172.4	3626732.2	15.3	5.00	4.65	
4.65 YES			NO					

L0000057	0	0.12346E-01	488163.7	3626727.3	15.1	5.00	4.65
4.65 YES		NO					
L0000 058	0	0.12346E-01	488155.0	3626722.4	14.9	5.00	4.65
4.65 YES		NO					
L0000 059	0	0.12346E-01	488159.5	3626713.5	14.8	5.00	4.65
4.65 YES		NO					
L0000 060	0	0.12346E-01	488164.0	3626704.6	14.8	5.00	4.65
4.65 YES		NO					
L0000 061	0	0.12346E-01	488168.9	3626695.9	15.2	5.00	4.65
4.65 YES		NO					
L0000 062	0	0.12346E-01	488176.7	3626689.8	15.0	5.00	4.65
4.65 YES		NO					
L0000 063	0	0.12346E-01	488183.1	3626682.4	14.6	5.00	4.65
4.65 YES		NO					
L0000 064	0	0.12346E-01	488187.5	3626673.4	14.0	5.00	4.65
4.65 YES		NO					
L0000 065	0	0.12346E-01	488195.1	3626671.4	13.4	5.00	4.65
4.65 YES		NO					
L0000 066	0	0.12346E-01	488194.5	3626679.6	13.8	5.00	4.65
4.65 YES		NO					
L0000 067	0	0.12346E-01	488191.4	3626689.1	14.4	5.00	4.65
4.65 YES		NO					
L0000 068	0	0.12346E-01	488188.3	3626698.6	14.9	5.00	4.65
4.65 YES		NO					
L0000 069	0	0.12346E-01	488194.2	3626703.7	15.0	5.00	4.65
4.65 YES		NO					
L0000 070	0	0.12346E-01	488203.7	3626707.1	15.1	5.00	4.65
4.65 YES		NO					
L0000 071	0	0.12346E-01	488213.1	3626710.4	15.1	5.00	4.65
4.65 YES		NO					
L0000 072	0	0.12346E-01	488222.5	3626713.7	15.0	5.00	4.65
4.65 YES		NO					
L0000 073	0	0.12346E-01	488216.6	3626717.2	15.1	5.00	4.65
4.65 YES		NO					
L0000 074	0	0.12346E-01	488206.9	3626716.0	15.1	5.00	4.65
4.65 YES		NO					
L0000 075	0	0.12346E-01	488197.1	3626713.9	15.1	5.00	4.65
4.65 YES		NO					
L0000 076	0	0.12346E-01	488187.3	3626711.8	15.1	5.00	4.65
4.65 YES		NO					
L0000 077	0	0.12346E-01	488182.7	3626719.5	15.2	5.00	4.65
4.65 YES		NO					
L0000 078	0	0.12346E-01	488176.7	3626722.9	15.2	5.00	4.65
4.65 YES		NO					
L0000 079	0	0.12346E-01	488167.7	3626718.4	15.0	5.00	4.65
4.65 YES		NO					
L0000 080	0	0.12346E-01	488172.7	3626710.5	15.1	5.00	4.65
4.65 YES		NO					

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SOURCE	SCALAR	EMISSION	RATE	AIRCRAFT	ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)
ID	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000081 0 0.12346E-01 488178.5 3626702.4 15.1 5.00 4.65
4.65 YES NO

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006	, L0000007 , L0000008 ,
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 , L0000058 , L0000059 , L0000060 , L0000061 ,
 , L0000063 , L0000064 ,

 L0000070 L0000065 , L0000066 , L0000067 , L0000068 , L0000069 ,
 , L0000071 , L0000072 ,

 L0000078 L0000073 , L0000074 , L0000075 , L0000076 , L0000077 ,
 , L0000079 , L0000080 ,

L0000081 ,
 *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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 , L0000058 , L0000059 , L0000060 , L0000061 ,
 , L0000063 , L0000064 ,

 L0000070 L0000065 , L0000066 , L0000067 , L0000068 , L0000069 ,
 , L0000071 , L0000072 ,

 L0000078 L0000073 , L0000074 , L0000075 , L0000076 , L0000077 ,
 , L0000079 , L0000080 ,

L0000081 ,

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***

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*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
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11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***

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*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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19	01	01	1	12	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.24	52.			10.0	287.3	10.0						
19	01	01	1	13	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.60	51.			10.0	287.1	10.0						
19	01	01	1	14	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.21	6.79	54.			10.0	287.1	10.0						
19	01	01	1	15	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.24	7.06	52.			10.0	287.1	10.0						
19	01	01	1	16	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.33	5.72	55.			10.0	286.4	10.0						
19	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.61	2.64	53.			10.0	285.2	10.0						
19	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	5.50	50.			10.0	283.4	10.0						
19	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	4.38	59.			10.0	281.6	10.0						
19	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.29	62.			10.0	280.9	10.0						
19	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.34	60.			10.0	281.0	10.0						
19	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.64	72.			10.0	280.1	10.0						
19	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	3.49	58.			10.0	279.4	10.0						
19	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.73	77.			10.0	279.3	10.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	10.0	1	41.	1.34	283.0	18.0	-99.00	0.40

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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

, L000027 , L000028 , . . . ,

*** 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		
487526.96	3626464.52	3.58691	487546.96
3626464.52	3.69635		
487566.96	3626464.52	3.86256	487586.96
3626464.52	4.07445		
487606.96	3626464.52	4.28105	487506.96
3626484.52	3.52220		
487526.96	3626484.52	3.64022	487546.96
3626484.52	3.68644		
487566.96	3626484.52	3.83888	487586.96
3626484.52	4.02135		
487606.96	3626484.52	4.21988	487626.96
3626484.52	4.44861		
487646.96	3626484.52	4.72085	487486.96
3626504.52	3.26062		
487506.96	3626504.52	3.44790	487526.96
3626504.52	3.64325		
487546.96	3626504.52	3.60608	487566.96
3626504.52	3.76180		
487586.96	3626504.52	3.94065	487606.96
3626504.52	4.15303		
487626.96	3626504.52	4.38699	487646.96
3626504.52	4.67135		
487666.96	3626504.52	4.97305	487686.96
3626504.52	5.28065		
487706.96	3626504.52	5.60455	487466.96
3626524.52	3.00801		
487486.96	3626524.52	3.17150	487506.96
3626524.52	3.35672		
487526.96	3626524.52	3.54557	487546.96
3626524.52	3.52617		
487566.96	3626524.52	3.67836	487586.96
3626524.52	3.86836		
487606.96	3626524.52	4.09183	487626.96
3626524.52	4.33339		
487646.96	3626524.52	4.60277	487666.96
3626524.52	4.90363		
487686.96	3626524.52	5.20719	487706.96
3626524.52	5.58139		

487726.96	3626524.52	5.99688	487746.96
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487546.96	3626544.52	3.51721	487566.96
3626544.52	3.61232		
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3626544.52	4.55587		
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3626544.52	5.16252		
487706.96	3626544.52	5.54467	487726.96
3626544.52	5.97556		
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3626544.52	6.99919		
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3626544.52	8.31243		
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3626564.52	2.60791		
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3626564.52	2.86815		
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3626564.52	3.16597		
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3626564.52	3.37917		
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3626564.52	3.75000		
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3626564.52	4.76582		
487686.96	3626564.52	5.10034	487706.96
3626564.52	5.46257		
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3626564.52	6.35736		
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3626564.52	7.52346		

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Parkway Bridge Project EIR\ ***   12/21/23
*** AERMET - VERSION 22112 ***   ***
***                               ***   11:15:09

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VALUES FOR SOURCE GROUP: ALL

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

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		
487806.96	3626564.52	8.20533	487826.96
3626564.52	8.96915		
487846.96	3626564.52	9.83382	487866.96
3626564.52	10.86820		
487426.96	3626584.52	2.54022	487446.96
3626584.52	2.65777		
487466.96	3626584.52	2.78729	487486.96
3626584.52	2.92410		
487506.96	3626584.52	3.07133	487526.96
3626584.52	3.24369		
487546.96	3626584.52	3.28798	487566.96
3626584.52	3.46291		
487586.96	3626584.52	3.67098	487606.96
3626584.52	4.00496		
487626.96	3626584.52	4.12731	487646.96
3626584.52	4.39279		
487666.96	3626584.52	4.69066	487686.96
3626584.52	5.01918		
487706.96	3626584.52	5.37335	487726.96
3626584.52	5.79537		
487746.96	3626584.52	6.25565	487766.96
3626584.52	6.76906		
487786.96	3626584.52	7.36491	487806.96
3626584.52	8.03565		
487826.96	3626584.52	8.80374	487846.96
3626584.52	9.68606		
487866.96	3626584.52	10.77552	487886.96
3626584.52	11.93011		
487906.96	3626584.52	13.25522	487426.96

3626604.52	2.46989		
487446.96	3626604.52	2.58586	487466.96
3626604.52	2.71028		
487486.96	3626604.52	2.84428	487506.96
3626604.52	2.98609		
487526.96	3626604.52	3.14431	487546.96
3626604.52	3.24542		
487566.96	3626604.52	3.40785	487586.96
3626604.52	3.60710		
487606.96	3626604.52	3.81839	487626.96
3626604.52	4.05374		
487646.96	3626604.52	4.31062	487666.96
3626604.52	4.60543		
487686.96	3626604.52	4.91641	487706.96
3626604.52	5.27533		
487726.96	3626604.52	5.67202	487746.96
3626604.52	6.11669		
487766.96	3626604.52	6.62388	487786.96
3626604.52	7.19976		
487806.96	3626604.52	7.88914	487826.96
3626604.52	8.64799		
487846.96	3626604.52	9.52729	487866.96
3626604.52	10.54973		
487886.96	3626604.52	11.67355	487906.96
3626604.52	13.04223		
487926.96	3626604.52	14.69096	487406.96
3626624.52	2.30043		
487426.96	3626624.52	2.40246	487446.96
3626624.52	2.51670		
487466.96	3626624.52	2.63508	487486.96
3626624.52	2.76279		
487506.96	3626624.52	2.90410	487526.96
3626624.52	3.05378		
487546.96	3626624.52	3.18765	487566.96
3626624.52	3.36276		
487586.96	3626624.52	3.55813	487606.96
3626624.52	3.76559		
487626.96	3626624.52	3.99241	487646.96
3626624.52	4.23214		
487666.96	3626624.52	4.51472	487686.96
3626624.52	4.82485		
487706.96	3626624.52	5.16863	487726.96
3626624.52	5.55682		
487746.96	3626624.52	5.99146	487766.96
3626624.52	6.48275		
487786.96	3626624.52	7.04033	487806.96
3626624.52	7.87641		
487826.96	3626624.52	8.77000	487846.96
3626624.52	9.49535		
487866.96	3626624.52	10.25349	487886.96

3626624.52 11.38154

*** AERMOD - VERSION 23132 *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** AERMET - VERSION 22112 ***

*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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		
487906.96	3626624.52	12.76191	487926.96
3626624.52	14.42008		
487946.96	3626624.52	16.39355	487406.96
3626644.52	2.23843		
487426.96	3626644.52	2.33759	487446.96
3626644.52	2.44671		
487466.96	3626644.52	2.56335	487486.96
3626644.52	2.68706		
487506.96	3626644.52	2.82111	487526.96
3626644.52	2.96870		
487546.96	3626644.52	3.12574	487566.96
3626644.52	3.32189		
487586.96	3626644.52	3.51613	487606.96
3626644.52	3.71989		
487626.96	3626644.52	3.93900	487646.96
3626644.52	4.16840		
487666.96	3626644.52	4.42893	487686.96
3626644.52	4.72608		
487706.96	3626644.52	5.06224	487726.96
3626644.52	5.43691		

487746.96	3626644.52	5.85207	487766.96
3626644.52	6.32442		
487786.96	3626644.52	6.97865	487806.96
3626644.52	7.62205		
487826.96	3626644.52	8.36327	487846.96
3626644.52	9.22995		
487866.96	3626644.52	9.95088	487886.96
3626644.52	11.07318		
487906.96	3626644.52	12.43469	487926.96
3626644.52	14.08599		
487946.96	3626644.52	16.03299	487966.96
3626644.52	18.46134		
487386.96	3626664.52	2.08916	487406.96
3626664.52	2.18114		
487426.96	3626664.52	2.27658	487446.96
3626664.52	2.38201		
487466.96	3626664.52	2.49247	487486.96
3626664.52	2.61502		
487506.96	3626664.52	2.74393	487526.96
3626664.52	2.88783		
487546.96	3626664.52	3.04640	487566.96
3626664.52	3.22447		
487586.96	3626664.52	3.43083	487606.96
3626664.52	3.64673		
487626.96	3626664.52	3.88398	487646.96
3626664.52	4.11340		
487666.96	3626664.52	4.35158	487686.96
3626664.52	4.62493		
487706.96	3626664.52	4.93686	487726.96
3626664.52	5.30827		
487746.96	3626664.52	5.70199	487766.96
3626664.52	6.15062		
487786.96	3626664.52	6.65599	487806.96
3626664.52	7.26848		
487826.96	3626664.52	7.93800	487846.96
3626664.52	8.75601		
487866.96	3626664.52	9.71104	487886.96
3626664.52	10.81209		
487906.96	3626664.52	12.14761	487926.96
3626664.52	13.56800		
487946.96	3626664.52	15.62067	487966.96
3626664.52	18.00016		
487986.96	3626664.52	20.99912	487386.96
3626684.52	2.03227		
487406.96	3626684.52	2.11801	487426.96
3626684.52	2.21359		
487446.96	3626684.52	2.31647	487466.96
3626684.52	2.42656		
487486.96	3626684.52	2.54595	487506.96
3626684.52	2.67226		

3626684.52	15.06608		
487966.96	3626684.52	17.44486	487986.96
3626684.52	20.32933		
488006.96	3626684.52	24.01183	487366.96
3626704.52	1.88917		
487386.96	3626704.52	1.96533	487406.96
3626704.52	2.04595		
487426.96	3626704.52	2.14762	487446.96
3626704.52	2.25622		
487466.96	3626704.52	2.35986	487486.96
3626704.52	2.47722		
487506.96	3626704.52	2.60484	487526.96
3626704.52	2.74095		
487546.96	3626704.52	2.88587	487566.96
3626704.52	3.03884		
487586.96	3626704.52	3.20271	487606.96
3626704.52	3.38220		
487626.96	3626704.52	3.60171	487646.96
3626704.52	3.92745		
487666.96	3626704.52	4.20148	487686.96
3626704.52	4.43234		
487706.96	3626704.52	4.65251	487726.96
3626704.52	4.90639		
487746.96	3626704.52	5.24412	487766.96
3626704.52	5.63665		
487786.96	3626704.52	6.10327	487806.96
3626704.52	6.63946		
487826.96	3626704.52	7.23177	487846.96
3626704.52	7.89963		
487866.96	3626704.52	8.66840	487886.96
3626704.52	9.58866		
487906.96	3626704.52	10.79850	487926.96
3626704.52	12.21053		
487946.96	3626704.52	14.11908	487966.96
3626704.52	16.78093		
487986.96	3626704.52	19.57137	488006.96
3626704.52	22.97395		
488026.96	3626704.52	27.58691	487386.96
3626724.52	1.91078		
487406.96	3626724.52	1.99283	487426.96
3626724.52	2.09487		
487446.96	3626724.52	2.19292	487466.96
3626724.52	2.29298		
487486.96	3626724.52	2.40516	487506.96
3626724.52	2.52783		
487526.96	3626724.52	2.66362	487546.96
3626724.52	2.80158		
487566.96	3626724.52	2.95352	487586.96
3626724.52	3.11812		
487606.96	3626724.52	3.31325	487626.96

3626724.52	3.50969			
487646.96	3626724.52	3.73331		487666.96
3626724.52	3.99863			
487686.96	3626724.52	4.23725		487706.96
3626724.52	4.49543			
487726.96	3626724.52	4.73801		487746.96
3626724.52	5.05637			
487766.96	3626724.52	5.43120		487786.96
3626724.52	5.86036			
487806.96	3626724.52	6.32999		487826.96
3626724.52	6.92086			
487846.96	3626724.52	7.59000		487866.96
3626724.52	8.29551			
487886.96	3626724.52	9.13430		487906.96
3626724.52	10.30212			
487926.96	3626724.52	11.84137		487946.96
3626724.52	13.88940			
487966.96	3626724.52	16.20122		487986.96
3626724.52	18.79648			

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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		
488006.96	3626724.52	22.08838	488026.96
3626724.52	26.39171		

488046.96	3626724.52	32.15553	487406.96
3626744.52	1.94009		
487426.96	3626744.52	2.04449	487446.96
3626744.52	2.13104		
487466.96	3626744.52	2.22706	487486.96
3626744.52	2.33567		
487506.96	3626744.52	2.45579	487526.96
3626744.52	2.58967		
487546.96	3626744.52	2.72330	487566.96
3626744.52	2.86666		
487586.96	3626744.52	3.03650	487606.96
3626744.52	3.22660		
487626.96	3626744.52	3.40555	487646.96
3626744.52	3.61338		
487666.96	3626744.52	3.84921	487686.96
3626744.52	4.09398		
487706.96	3626744.52	4.36198	487726.96
3626744.52	4.59555		
487746.96	3626744.52	4.89810	487766.96
3626744.52	5.25015		
487786.96	3626744.52	5.63107	487806.96
3626744.52	6.05612		
487826.96	3626744.52	6.63264	487846.96
3626744.52	7.28977		
487866.96	3626744.52	7.98447	487886.96
3626744.52	8.77259		
487906.96	3626744.52	9.88600	487926.96
3626744.52	11.62961		
487946.96	3626744.52	13.51330	487966.96
3626744.52	15.41407		
487986.96	3626744.52	17.96466	488006.96
3626744.52	21.07461		
488026.96	3626744.52	24.96293	488046.96
3626744.52	29.95372		
488066.96	3626744.52	36.98559	487446.96
3626764.52	2.06074		
487466.96	3626764.52	2.15105	487486.96
3626764.52	2.27420		
487506.96	3626764.52	2.40189	487526.96
3626764.52	2.52658		
487546.96	3626764.52	2.64611	487566.96
3626764.52	2.78729		
487586.96	3626764.52	2.95088	487606.96
3626764.52	3.12807		
487626.96	3626764.52	3.31617	487646.96
3626764.52	3.50718		
487666.96	3626764.52	3.71524	487686.96
3626764.52	3.94933		
487706.96	3626764.52	4.22032	487726.96
3626764.52	4.48950		

487746.96	3626764.52	4.77711	487766.96
3626764.52	5.08261		
487786.96	3626764.52	5.43047	487806.96
3626764.52	5.86178		
487826.96	3626764.52	6.35085	487846.96
3626764.52	6.95960		
487866.96	3626764.52	7.71652	487886.96
3626764.52	8.49879		
487906.96	3626764.52	9.55421	487926.96
3626764.52	10.98201		
487946.96	3626764.52	12.84578	487966.96
3626764.52	14.32033		
487986.96	3626764.52	15.85611	488006.96
3626764.52	18.42801		
488026.96	3626764.52	22.69795	488046.96
3626764.52	28.07331		
488066.96	3626764.52	33.89666	488086.96
3626764.52	42.11659		
487466.96	3626784.52	2.12333	487486.96
3626784.52	2.23335		
487506.96	3626784.52	2.34451	487526.96
3626784.52	2.45214		
487546.96	3626784.52	2.57738	487566.96
3626784.52	2.71932		
487586.96	3626784.52	2.87278	487606.96
3626784.52	3.03154		
487626.96	3626784.52	3.20078	487646.96
3626784.52	3.39319		

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 Parkway Bridge Project EIR\ *** 12/21/23
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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/M³

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3626784.52	487666.96	3626784.52	3.60158	487686.96
3626784.52	487706.96	3626784.52	4.07063	487726.96
3626784.52	487746.96	3626784.52	4.65200	487766.96
3626784.52	487786.96	3626784.52	5.27668	487806.96
3626784.52	487826.96	3626784.52	6.16276	487846.96
3626784.52	487866.96	3626784.52	7.37441	487886.96
3626784.52	487906.96	3626784.52	9.15663	487926.96
3626784.52	487946.96	3626784.52	11.45606	487966.96
3626784.52	487986.96	3626784.52	14.65981	488006.96
3626784.52	488026.96	3626784.52	20.21689	488046.96
3626804.52	487506.96	3626804.52	2.28780	487526.96
3626804.52	487546.96	3626804.52	2.51718	487566.96
3626804.52	487586.96	3626804.52	2.79509	487606.96
3626804.52	487626.96	3626804.52	3.09857	487646.96
3626804.52	487666.96	3626804.52	3.50493	487686.96
3626804.52	487706.96	3626804.52	3.93556	487726.96
3626804.52	487746.96	3626804.52	4.51006	487766.96
3626804.52	487786.96	3626804.52	5.14745	487806.96
3626804.52	487826.96	3626804.52	5.99819	487846.96
3626804.52	487866.96	3626804.52	7.06942	487886.96
3626804.52	487906.96	3626804.52	8.73268	487926.96
3626804.52	487946.96	3626804.52	10.84309	487966.96

3626804.52	12.21330			
487986.96	3626804.52	13.82496	487526.96	
3626824.52	2.34464			
487546.96	3626824.52	2.45382	487566.96	
3626824.52	2.57773			
487586.96	3626824.52	2.72501	487606.96	
3626824.52	2.89135			
487626.96	3626824.52	3.03998	487646.96	
3626824.52	3.22131			
487666.96	3626824.52	3.42399	487686.96	
3626824.52	3.63200			
487706.96	3626824.52	3.85658	487726.96	
3626824.52	4.08139			
487746.96	3626824.52	4.33745	487766.96	
3626824.52	4.65830			
487786.96	3626824.52	5.03747	487806.96	
3626824.52	5.40829			
487826.96	3626824.52	5.83420	487846.96	
3626824.52	6.31581			
487866.96	3626824.52	6.85627	487886.96	
3626824.52	7.49479			
487546.96	3626844.52	2.40176	487566.96	
3626844.52	2.53118			
487586.96	3626844.52	2.67339	487606.96	
3626844.52	2.83068			
487626.96	3626844.52	2.98125	487646.96	
3626844.52	3.15632			
487666.96	3626844.52	3.34049	487686.96	
3626844.52	3.53427			
487706.96	3626844.52	3.76505	487726.96	
3626844.52	3.98362			
487746.96	3626844.52	4.24608	487766.96	
3626844.52	4.55743			
487786.96	3626844.52	4.90195	487806.96	
3626844.52	5.26868			
487826.96	3626844.52	5.68157	487846.96	
3626844.52	6.14609			

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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

*** 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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3626864.52	487546.96	3626864.52	2.35482	487566.96
			2.48835	
3626864.52	487586.96	3626864.52	2.62651	487606.96
			2.76758	
3626864.52	487626.96	3626864.52	2.91500	487646.96
			3.09114	
3626864.52	487666.96	3626864.52	3.26742	487686.96
			3.45070	
3626864.52	487706.96	3626864.52	3.67450	487726.96
			3.90620	
3626864.52	487746.96	3626864.52	4.17596	487766.96
			4.46703	
3626864.52	487786.96	3626864.52	4.76583	487806.96
			5.13086	
3626884.52	487566.96	3626884.52	2.42913	487586.96
			2.57353	
3626884.52	487606.96	3626884.52	2.71376	487626.96
			2.83450	
3626884.52	487646.96	3626884.52	3.01344	487666.96
			3.19800	
3626884.52	487686.96	3626884.52	3.39047	487706.96
			3.61269	
3626884.52	487726.96	3626884.52	3.83264	487746.96
			4.07779	
3626884.52	487766.96	3626884.52	4.34695	487786.96
			4.63349	
3626904.52	487586.96	3626904.52	2.52113	487606.96
			2.66364	
3626904.52	487626.96	3626904.52	2.78109	487646.96
			2.94320	
3626904.52	487666.96	3626904.52	3.11983	487686.96
			3.30500	
3626904.52	487706.96	3626904.52	3.52682	487726.96
			3.74209	

487746.96	3626904.52	3.98167	487766.96
3626904.52	4.24487		
487626.96	3626924.52	2.74139	487646.96
3626924.52	2.88037		
487666.96	3626924.52	3.03674	487686.96
3626924.52	3.21892		
487706.96	3626924.52	3.43017	487726.96
3626924.52	3.64126		
487746.96	3626924.52	3.88005	487646.96
3626944.52	2.83653		
487666.96	3626944.52	2.99493	487686.96
3626944.52	3.16789		
487706.96	3626944.52	3.34325	487726.96
3626944.52	3.54310		
487666.96	3626964.52	2.94290	487686.96
3626964.52	3.10481		
487706.96	3626964.52	3.27012	487686.96
3626984.52	3.03967		
488242.19	3625436.42	0.51989	488262.19
3625436.42	0.51569		
488242.19	3625456.42	0.53337	488262.19
3625456.42	0.52899		
488282.19	3625456.42	0.52434	488302.19
3625456.42	0.51959		
488322.19	3625456.42	0.51546	488242.19
3625476.42	0.54742		
488262.19	3625476.42	0.54284	488282.19
3625476.42	0.53804		
488302.19	3625476.42	0.53314	488322.19
3625476.42	0.52889		
488342.19	3625476.42	0.52532	488362.19
3625476.42	0.52245		
488242.19	3625496.42	0.56209	488262.19
3625496.42	0.55732		
488282.19	3625496.42	0.55235	488302.19
3625496.42	0.54744		
488322.19	3625496.42	0.54308	488342.19
3625496.42	0.53940		
488362.19	3625496.42	0.53640	488382.19
3625496.42	0.53397		
488402.19	3625496.42	0.53203	488422.19
3625496.42	0.53046		
488242.19	3625516.42	0.57738	488262.19
3625516.42	0.57243		
488282.19	3625516.42	0.56722	488302.19
3625516.42	0.56220		

*** AERMOD - VERSION 23132 ***
 Parkway Bridge Project EIR\ ***
 *** AERMET - VERSION 22112 ***

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 12/21/23

 11:15:09

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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		
488322.19	3625516.42	0.55773	488342.19
3625516.42	0.55394		
488362.19	3625516.42	0.55085	488382.19
3625516.42	0.54836		
488402.19	3625516.42	0.54638	488422.19
3625516.42	0.54485		
488442.19	3625516.42	0.54374	488462.19
3625516.42	0.54309		
488482.19	3625516.42	0.54298	488222.19
3625536.42	0.59816		
488242.19	3625536.42	0.59338	488262.19
3625536.42	0.58823		
488282.19	3625536.42	0.58276	488302.19
3625536.42	0.57757		
488322.19	3625536.42	0.57299	488342.19
3625536.42	0.56910		
488362.19	3625536.42	0.56591	488382.19
3625536.42	0.56338		
488402.19	3625536.42	0.56137	488422.19
3625536.42	0.55989		
488442.19	3625536.42	0.55888	488462.19
3625536.42	0.55834		
488482.19	3625536.42	0.55838	488502.19
3625536.42	0.55900		
488522.19	3625536.42	0.56034	488542.19

3625536.42	0.56242		
488222.19	3625556.42	0.61491	488242.19
3625556.42	0.61015		
488262.19	3625556.42	0.60480	488282.19
3625556.42	0.59913		
488302.19	3625556.42	0.59384	488322.19
3625556.42	0.58912		
488342.19	3625556.42	0.58512	488362.19
3625556.42	0.58188		
488382.19	3625556.42	0.57942	488402.19
3625556.42	0.57742		
488422.19	3625556.42	0.57591	488442.19
3625556.42	0.57490		
488462.19	3625556.42	0.57442	488482.19
3625556.42	0.57466		
488502.19	3625556.42	0.57560	488522.19
3625556.42	0.57727		
488542.19	3625556.42	0.57960	488562.19
3625556.42	0.58247		
488202.19	3625576.42	0.63640	488222.19
3625576.42	0.63250		
488242.19	3625576.42	0.62770	488262.19
3625576.42	0.62216		
488282.19	3625576.42	0.61633	488302.19
3625576.42	0.61086		
488322.19	3625576.42	0.60602	488342.19
3625576.42	0.60196		
488362.19	3625576.42	0.59870	488382.19
3625576.42	0.59620		
488402.19	3625576.42	0.59414	488422.19
3625576.42	0.59261		
488442.19	3625576.42	0.59167	488462.19
3625576.42	0.59138		
488482.19	3625576.42	0.59186	488502.19
3625576.42	0.59307		
488522.19	3625576.42	0.59500	488542.19
3625576.42	0.59760		
488562.19	3625576.42	0.60077	488582.19
3625576.42	0.60428		
488122.19	3625596.42	0.66269	488142.19
3625596.42	0.66120		
488162.19	3625596.42	0.65961	488182.19
3625596.42	0.65763		
488202.19	3625596.42	0.65488	488222.19
3625596.42	0.65105		
488242.19	3625596.42	0.64608	488262.19
3625596.42	0.64035		
488282.19	3625596.42	0.63441	488302.19
3625596.42	0.62870		
488322.19	3625596.42	0.62373	488342.19

3625596.42 0.61966
 488362.19 3625596.42 0.61642 488382.19
 3625596.42 0.61379
 488402.19 3625596.42 0.61162 488422.19
 3625596.42 0.61009

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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)
488522.19	3625596.42	0.61364	488542.19
3625596.42	0.61650		
488562.19	3625596.42	0.62001	488582.19
3625596.42	0.62386		
488602.19	3625596.42	0.62788	488062.19
3625616.42	0.68600		
488082.19	3625616.42	0.68563	488102.19
3625616.42	0.68445		
488122.19	3625616.42	0.68296	488142.19
3625616.42	0.68137		
488162.19	3625616.42	0.67966	488182.19
3625616.42	0.67752		
488202.19	3625616.42	0.67459	488222.19
3625616.42	0.67059		
488242.19	3625616.42	0.66547	488262.19
3625616.42	0.65957		

488282.19	3625616.42	0.65342	488302.19
3625616.42	0.64755		
488322.19	3625616.42	0.64238	488342.19
3625616.42	0.63816		
488362.19	3625616.42	0.63483	488382.19
3625616.42	0.63214		
488402.19	3625616.42	0.63086	488522.19
3625616.42	0.63331		
488542.19	3625616.42	0.63651	488562.19
3625616.42	0.64026		
488582.19	3625616.42	0.64441	488602.19
3625616.42	0.64871		
488062.19	3625636.42	0.70711	488082.19
3625636.42	0.70684		
488102.19	3625636.42	0.70576	488122.19
3625636.42	0.70423		
488142.19	3625636.42	0.70258	488162.19
3625636.42	0.70076		
488182.19	3625636.42	0.69851	488202.19
3625636.42	0.69542		
488222.19	3625636.42	0.69123	488242.19
3625636.42	0.68592		
488262.19	3625636.42	0.67979	488282.19
3625636.42	0.67338		
488302.19	3625636.42	0.66730	488322.19
3625636.42	0.66197		
488342.19	3625636.42	0.65762	488362.19
3625636.42	0.65418		
488382.19	3625636.42	0.65142	488522.19
3625636.42	0.65411		
488542.19	3625636.42	0.65764	488562.19
3625636.42	0.66166		
488582.19	3625636.42	0.66612	488602.19
3625636.42	0.67071		
488622.19	3625636.42	0.67533	488062.19
3625656.42	0.72940		
488082.19	3625656.42	0.72910	488102.19
3625656.42	0.72812		
488122.19	3625656.42	0.72659	488142.19
3625656.42	0.72488		
488162.19	3625656.42	0.72300	488182.19
3625656.42	0.72067		
488202.19	3625656.42	0.71747	488222.19
3625656.42	0.71304		
488242.19	3625656.42	0.70749	488262.19
3625656.42	0.70108		
488282.19	3625656.42	0.69434	488302.19
3625656.42	0.68803		
488322.19	3625656.42	0.68259	488342.19
3625656.42	0.67811		

488362.19	3625656.42	0.67453	488382.19
3625656.42	0.67170		
488522.19	3625656.42	0.67611	488542.19
3625656.42	0.68000		
488582.19	3625656.42	0.68908	488602.19
3625656.42	0.69397		
488622.19	3625656.42	0.69886	488642.19
3625656.42	0.70374		
488062.19	3625676.42	0.75218	488082.19
3625676.42	0.75254		
488102.19	3625676.42	0.75179	488122.19
3625676.42	0.75031		
488142.19	3625676.42	0.74854	488162.19
3625676.42	0.74656		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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		
488182.19	3625676.42	0.74409	488202.19
3625676.42	0.74065		
488222.19	3625676.42	0.73600	488242.19
3625676.42	0.73012		
488262.19	3625676.42	0.72338	488282.19
3625676.42	0.71641		
488302.19	3625676.42	0.70984	488322.19

3625676.42	0.70423		
488342.19	3625676.42	0.69961	488362.19
3625676.42	0.69589		
488382.19	3625676.42	0.69288	488582.19
3625676.42	0.71341		
488602.19	3625676.42	0.71860	488622.19
3625676.42	0.72383		
488642.19	3625676.42	0.72902	488062.19
3625696.42	0.77624		
488082.19	3625696.42	0.77732	488102.19
3625696.42	0.77687		
488122.19	3625696.42	0.77544	488142.19
3625696.42	0.77352		
488162.19	3625696.42	0.77140	488182.19
3625696.42	0.76878		
488202.19	3625696.42	0.76513	488222.19
3625696.42	0.76024		
488242.19	3625696.42	0.75403	488262.19
3625696.42	0.74696		
488282.19	3625696.42	0.73973	488302.19
3625696.42	0.73287		
488322.19	3625696.42	0.72703	488342.19
3625696.42	0.72223		
488362.19	3625696.42	0.71839	488382.19
3625696.42	0.71539		
488582.19	3625696.42	0.73924	488602.19
3625696.42	0.74467		
488622.19	3625696.42	0.75024	488642.19
3625696.42	0.75570		
488662.19	3625696.42	0.76118	488042.19
3625716.42	0.79829		
488142.19	3625716.42	0.79993	488162.19
3625716.42	0.79760		
488182.19	3625716.42	0.79482	488202.19
3625716.42	0.79103		
488222.19	3625716.42	0.78589	488242.19
3625716.42	0.77937		
488262.19	3625716.42	0.77197	488282.19
3625716.42	0.76441		
488302.19	3625716.42	0.75726	488322.19
3625716.42	0.75109		
488342.19	3625716.42	0.74603	488362.19
3625716.42	0.74212		
488382.19	3625716.42	0.73944	488602.19
3625716.42	0.77230		
488622.19	3625716.42	0.77819	488642.19
3625716.42	0.78385		
488662.19	3625716.42	0.78965	488682.19
3625716.42	0.79529		
488022.19	3625736.42	0.81791	488042.19

3625736.42	0.82539			
488182.19	3625736.42	0.82232		488202.19
3625736.42	0.81827			
488222.19	3625736.42	0.81285		488242.19
3625736.42	0.80598			
488262.19	3625736.42	0.79819		488282.19
3625736.42	0.79025			
488302.19	3625736.42	0.78280		488322.19
3625736.42	0.77649			
488362.19	3625736.42	0.76804		488382.19
3625736.42	0.76478			
488402.19	3625736.42	0.76308		488602.19
3625736.42	0.80173			
488622.19	3625736.42	0.80795		488642.19
3625736.42	0.81392			
488662.19	3625736.42	0.81994		488682.19
3625736.42	0.82570			
488702.19	3625736.42	0.83086		488802.19
3625756.42	0.83457			
488022.19	3625756.42	0.84460		488182.19
3625756.42	0.85144			
488202.19	3625756.42	0.84711		488222.19
3625756.42	0.84142			

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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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		

488242.19	3625756.42	0.83416	488262.19
3625756.42	0.82595		
488282.19	3625756.42	0.81763	488382.19
3625756.42	0.79177		
488602.19	3625756.42	0.83308	488622.19
3625756.42	0.83962		
488642.19	3625756.42	0.84594	488662.19
3625756.42	0.85209		
488682.19	3625756.42	0.85783	488702.19
3625756.42	0.86269		
487982.19	3625776.42	0.85115	488002.19
3625776.42	0.86231		
488222.19	3625776.42	0.87180	488242.19
3625776.42	0.86414		
488262.19	3625776.42	0.85547	488622.19
3625776.42	0.87332		
488642.19	3625776.42	0.88003	488662.19
3625776.42	0.88620		
488682.19	3625776.42	0.89169	488702.19
3625776.42	0.89593		
488722.19	3625776.42	0.89822	487982.19
3625796.42	0.87988		
488222.19	3625796.42	0.90403	488242.19
3625796.42	0.89591		
488262.19	3625796.42	0.88681	488622.19
3625796.42	0.91013		
488642.19	3625796.42	0.91628	488662.19
3625796.42	0.92229		
488682.19	3625796.42	0.92725	488702.19
3625796.42	0.93048		
488722.19	3625796.42	0.93133	488742.19
3625796.42	0.92928		
488222.19	3625816.42	0.93829	488242.19
3625816.42	0.92966		
488262.19	3625816.42	0.92021	488642.19
3625816.42	0.95467		
488662.19	3625816.42	0.96032	488682.19
3625816.42	0.96443		
488702.19	3625816.42	0.96622	488722.19
3625816.42	0.96518		
488742.19	3625816.42	0.96081	488762.19
3625816.42	0.95307		
488202.19	3625836.42	0.98252	488222.19
3625836.42	0.97485		
488242.19	3625836.42	0.96565	488662.19
3625836.42	1.00022		
488682.19	3625836.42	1.00311	488702.19
3625836.42	1.00303		

*** 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		
488702.19	3625896.42	1.11732	488722.19
3625896.42	1.10485		
488742.19	3625896.42	1.08899	488762.19
3625896.42	1.07090		
488782.19	3625896.42	1.05177	488802.19
3625896.42	1.03270		
488822.19	3625896.42	1.01452	488842.19
3625896.42	0.99771		
488862.19	3625896.42	0.98259	488882.19
3625896.42	0.96915		
488902.19	3625896.42	0.95718	488202.19
3625916.42	1.15537		
488222.19	3625916.42	1.14600	488642.19
3625916.42	1.17863		
488662.19	3625916.42	1.17587	488682.19
3625916.42	1.16836		
488702.19	3625916.42	1.15634	488762.19
3625916.42	1.10227		
488782.19	3625916.42	1.08174	488802.19
3625916.42	1.06226		
488822.19	3625916.42	1.04422	488842.19
3625916.42	1.02787		
488862.19	3625916.42	1.01328	488882.19
3625916.42	1.00024		
488902.19	3625916.42	0.98845	488922.19
3625916.42	0.97748		
488942.19	3625916.42	0.96688	488222.19
3625936.42	1.19681		
488622.19	3625936.42	1.23053	488642.19
3625936.42	1.22925		
488662.19	3625936.42	1.22281	488682.19
3625936.42	1.21153		
488782.19	3625936.42	1.11373	488802.19
3625936.42	1.09425		
488822.19	3625936.42	1.07661	488842.19
3625936.42	1.06080		
488862.19	3625936.42	1.04665	488882.19
3625936.42	1.03380		
488902.19	3625936.42	1.02187	488922.19

3625936.42	1.01041			
488942.19	3625936.42	0.99913		488962.19
3625936.42	0.98784			
488982.19	3625936.42	0.97641		489002.19
3625936.42	0.96514			
488602.19	3625956.42	1.28576		488622.19
3625956.42	1.28604			
488642.19	3625956.42	1.28109		488662.19
3625956.42	1.27069			
488782.19	3625956.42	1.14846		488802.19
3625956.42	1.12921			
488822.19	3625956.42	1.11200		488842.19
3625956.42	1.09657			
488862.19	3625956.42	1.08261		488882.19
3625956.42	1.06968			
488902.19	3625956.42	1.05729		488922.19
3625956.42	1.04514			
488942.19	3625956.42	1.03305		488962.19
3625956.42	1.02090			
488982.19	3625956.42	1.00872		489002.19
3625956.42	0.99671			
489022.19	3625956.42	0.98493		489042.19
3625956.42	0.97358			
489062.19	3625956.42	0.96282		489082.19
3625956.42	0.95271			
488622.19	3625976.42	1.34381		488802.19
3625976.42	1.16733			
488822.19	3625976.42	1.15054		488842.19
3625976.42	1.13542			
488862.19	3625976.42	1.12139		488882.19
3625976.42	1.10799			
488902.19	3625976.42	1.09492		488922.19
3625976.42	1.08181			
488942.19	3625976.42	1.06873		488962.19
3625976.42	1.05572			
488982.19	3625976.42	1.04288		489002.19
3625976.42	1.03040			
489022.19	3625976.42	1.01841		489042.19
3625976.42	1.00708			
489062.19	3625976.42	0.99655		489082.19
3625976.42	0.98686			

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*** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ ***      12/21/23
*** AERMET - VERSION 22112 ***      ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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		
489102.19	3625976.42	0.97813	489122.19
3625976.42	0.97034		
488802.19	3625996.42	1.20889	488822.19
3625996.42	1.19231		
488842.19	3625996.42	1.17730	488922.19
3625996.42	1.12066		
488942.19	3625996.42	1.10655	488962.19
3625996.42	1.09277		
488982.19	3625996.42	1.07946	489002.19
3625996.42	1.06683		
489022.19	3625996.42	1.05495	489042.19
3625996.42	1.04390		
489062.19	3625996.42	1.03374	489082.19
3625996.42	1.02459		
489102.19	3625996.42	1.01639	489122.19
3625996.42	1.00910		
489142.19	3625996.42	1.00258	488802.19
3626016.42	1.25411		
488822.19	3626016.42	1.23734	488842.19
3626016.42	1.22197		
488982.19	3626016.42	1.11946	489002.19
3626016.42	1.10693		
489022.19	3626016.42	1.09530	489042.19
3626016.42	1.08463		
489062.19	3626016.42	1.07495	489082.19
3626016.42	1.06634		
489102.19	3626016.42	1.05850	489122.19
3626016.42	1.05147		
489142.19	3626016.42	1.04507	488782.19
3626036.42	1.32149		

488802.19	3626036.42	1.30297	488822.19
3626036.42	1.28568		
488842.19	3626036.42	1.26960	489042.19
3626036.42	1.12955		
489062.19	3626036.42	1.12023	489082.19
3626036.42	1.11195		
489102.19	3626036.42	1.10424	489122.19
3626036.42	1.09707		
489142.19	3626036.42	1.09025	488782.19
3626056.42	1.37472		
488802.19	3626056.42	1.35556	488822.19
3626056.42	1.33744		
488842.19	3626056.42	1.32042	489042.19
3626056.42	1.17885		
489062.19	3626056.42	1.16955	489082.19
3626056.42	1.16122		
489102.19	3626056.42	1.15328	489122.19
3626056.42	1.14544		
489142.19	3626056.42	1.13752	489162.19
3626056.42	1.12960		
488782.19	3626076.42	1.43321	488802.19
3626076.42	1.41210		
488822.19	3626076.42	1.39296	488842.19
3626076.42	1.37465		
488862.19	3626076.42	1.35729	489062.19
3626076.42	1.22282		
489082.19	3626076.42	1.21382	489102.19
3626076.42	1.20505		
489122.19	3626076.42	1.19598	489142.19
3626076.42	1.18643		
489162.19	3626076.42	1.17672	488782.19
3626096.42	1.49557		
488802.19	3626096.42	1.47301	488822.19
3626096.42	1.45282		
488842.19	3626096.42	1.43336	488862.19
3626096.42	1.41475		
489062.19	3626096.42	1.27942	489082.19
3626096.42	1.26902		
489102.19	3626096.42	1.25858	489122.19
3626096.42	1.24758		
489142.19	3626096.42	1.23584	489162.19
3626096.42	1.22355		
488782.19	3626116.42	1.56150	488802.19
3626116.42	1.53899		
488822.19	3626116.42	1.51787	488842.19
3626116.42	1.49756		
488862.19	3626116.42	1.47842	489062.19
3626116.42	1.33844		
489082.19	3626116.42	1.32582	489102.19
3626116.42	1.31273		

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 Parkway Bridge Project EIR\ *** 12/21/23
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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		
489122.19	3626116.42	1.29906	489142.19
3626116.42	1.28461		
489162.19	3626116.42	1.26895	489182.19
3626116.42	1.25274		
488782.19	3626136.42	1.63388	488802.19
3626136.42	1.61082		
488822.19	3626136.42	1.58920	488842.19
3626136.42	1.56830		
488862.19	3626136.42	1.54867	489082.19
3626136.42	1.38320		
489102.19	3626136.42	1.36663	489122.19
3626136.42	1.34949		
489142.19	3626136.42	1.33155	489162.19
3626136.42	1.31214		
489182.19	3626136.42	1.29226	488782.19
3626156.42	1.71361		
488802.19	3626156.42	1.68985	488822.19
3626156.42	1.66786		
488842.19	3626156.42	1.64638	488862.19
3626156.42	1.62624		
488882.19	3626156.42	1.60764	489102.19

3626156.42	1.41892			
489122.19	3626156.42	1.39744		489142.19
3626156.42	1.37540			
489162.19	3626156.42	1.35201		489182.19
3626156.42	1.32814			
488782.19	3626176.42	1.80199		488802.19
3626176.42	1.77733			
488822.19	3626176.42	1.75474		488842.19
3626176.42	1.73237			
488862.19	3626176.42	1.71145		488882.19
3626176.42	1.69213			
489122.19	3626176.42	1.44167		489142.19
3626176.42	1.41502			
489162.19	3626176.42	1.38763		489182.19
3626176.42	1.35959			
488782.19	3626196.42	1.89995		488802.19
3626196.42	1.87398			
488822.19	3626196.42	1.85034		488842.19
3626196.42	1.82657			
488862.19	3626196.42	1.80400		488882.19
3626196.42	1.78279			
488902.19	3626196.42	1.76191		489142.19
3626196.42	1.44972			
489162.19	3626196.42	1.41791		489182.19
3626196.42	1.38581			
489202.19	3626196.42	1.35353		488782.19
3626216.42	2.00808			
488802.19	3626216.42	1.98025		488822.19
3626216.42	1.95457			
488842.19	3626216.42	1.92851		488862.19
3626216.42	1.90319			
488882.19	3626216.42	1.87864		488902.19
3626216.42	1.85403			
489142.19	3626216.42	1.47856		489162.19
3626216.42	1.44236			
489182.19	3626216.42	1.40637		489202.19
3626216.42	1.37050			
489222.19	3626216.42	1.33479		489242.19
3626216.42	1.29926			
489262.19	3626216.42	1.26449		488782.19
3626236.42	2.12655			
488802.19	3626236.42	2.09617		488822.19
3626236.42	2.06662			
488842.19	3626236.42	2.03719		488862.19
3626236.42	2.00783			
488882.19	3626236.42	1.97820		488902.19
3626236.42	1.94787			
489142.19	3626236.42	1.50085		489162.19
3626236.42	1.46065			
489182.19	3626236.42	1.42101		489202.19

489162.19	3626276.42	1.48193	489242.19
3626276.42	1.29919		
489262.19	3626276.42	1.25795	488882.19
3626296.42	2.26141		
488902.19	3626296.42	2.20542	489262.19
3626296.42	1.24699		
489282.19	3626296.42	1.20626	488902.19
3626316.42	2.27237		
489282.19	3626316.42	1.19088	489302.19
3626316.42	1.15153		
488902.19	3626336.42	2.32522	488922.19
3626336.42	2.24853		
489302.19	3626336.42	1.13297	489322.19
3626336.42	1.09528		
488922.19	3626356.42	2.27561	488942.19
3626356.42	2.19230		
489322.19	3626356.42	1.07530	488942.19
3626376.42	2.19710		
488962.19	3626376.42	2.10829	489322.19
3626376.42	1.05389		
489342.19	3626376.42	1.02025	488962.19
3626396.42	2.09461		
489322.19	3626396.42	1.03167	489342.19
3626396.42	0.99796		
489342.19	3626416.42	0.97707	489342.19
3626436.42	0.95707		
486721.80	3628652.61	0.16270	486669.50
3628628.55	0.16407		
486698.79	3628698.63	0.15734	486713.43
3628699.68	0.15731		
486757.36	3628723.73	0.15440	486803.39
3628721.64	0.15403		
486732.26	3628704.91	0.15675	486505.52
3627649.40	0.21766		
486498.72	3627624.46	0.21974	486467.73
3627650.15	0.21254		
486460.18	3627619.17	0.21507	488395.14
3627250.20	3.65403		
488707.71	3626756.74	5.14880	488748.32
3626767.81	4.50138		
488796.31	3626745.66	3.89443	488284.66
3628205.50	0.20659		
488310.04	3628227.57	0.20067	488291.28
3628261.78	0.19527		
488257.07	3628245.23	0.20118	488310.04
3628201.09	0.20594		
488301.21	3628169.09	0.21337	488343.14
3628192.26	0.20703		
487535.35	3626865.62	2.26083	487693.75
3626992.77	3.06885		

3625964.44	0.94415			
489178.07	3626085.25	1.18843	489203.43	
3626198.60	1.35363			
489260.10	3626203.08	1.26327	489276.51	
3626217.99	1.24061			
489267.56	3626265.72	1.25178	489336.17	
3626346.26	1.06240			
489361.53	3626432.77	0.93268	489331.70	
3626449.18	0.96142			
489309.32	3626361.18	1.09552	489258.61	
3626298.53	1.25329			
489190.00	3626228.43	1.40109	489149.73	
3626317.92	1.50697			
489130.34	3626250.81	1.53972	489137.80	
3626216.50	1.48668			
489054.28	3626106.13	1.31245	489036.38	
3626036.03	1.13153			
488921.53	3625997.25	1.12290	488846.96	
3625983.83	1.14718			
488872.31	3626110.61	1.45014	488902.14	
3626194.13	1.75162			
488931.97	3626270.20	2.03393	488908.77	
3626298.76	2.19637			
488936.81	3626348.34	2.20834	488971.36	
3626378.01	2.06931			
488968.11	3626409.72	2.05722	488903.08	
3626355.25	2.35763			
488864.87	3626256.49	2.10920	488763.27	
3626259.34	2.30949			
488787.87	3625962.95	1.15481	488735.67	
3625906.27	1.11111			
488620.82	3625988.31	1.37964	488588.00	
3625956.98	1.28492			
488671.53	3625861.52	1.05339	488629.77	
3625813.79	0.94617			
488588.00	3625746.67	0.81303	488571.59	
3625648.23	0.67702			
488516.41	3625666.13	0.68685	488522.37	
3625581.11	0.59930			
488431.39	3625576.63	0.59229	488447.79	
3625615.41	0.62760			
488388.13	3625616.90	0.63212	488398.57	
3625706.40	0.72570			
488406.03	3625745.18	0.77466	488392.60	
3625776.50	0.81989			
488350.84	3625722.81	0.75222	488279.24	
3625769.05	0.83704			
488282.23	3625807.83	0.89649	488246.43	
3625851.08	0.99182			
488230.02	3625946.54	1.21983	488188.26	

3625924.17	1.18092			
488213.62	3625757.11	0.84507		488170.36
3625779.49	0.88991			
488170.36	3625733.25	0.81984		488077.88
3625697.45	0.77855			
487973.47	3625822.74	0.91530		487955.57
3625809.32	0.88455			
488058.49	3625678.06	0.75385		488057.00
3625618.40	0.68791			
488107.71	3625596.02	0.66340		488185.27
3625576.63	0.63885			
488228.53	3625528.90	0.59035		488233.01
3625482.66	0.55389			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
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 *** 11:15:09

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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

*** 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)		
487526.96	3626464.52	50.21491	(19021102)	487546.96
3626464.52	49.09224	(19021102)		
487566.96	3626464.52	49.33438	(19021102)	487586.96
3626464.52	50.29889	(19021102)		
487606.96	3626464.52	50.36125	(19021102)	487506.96
3626484.52	62.02136	(20121705)		
487526.96	3626484.52	56.03091	(20121705)	487546.96
3626484.52	50.36549	(19021102)		

487566.96	3626484.52	50.36940	(19021102)	487586.96
3626484.52	50.74745	(19021102)		
487606.96	3626484.52	50.77916	(19021102)	487626.96
3626484.52	51.25157	(19021102)		
487646.96	3626484.52	52.61489	(19021102)	487486.96
3626504.52	58.68866	(20122123)		
487506.96	3626504.52	60.30173	(20121705)	487526.96
3626504.52	63.52918	(20121705)		
487546.96	3626504.52	51.60606	(19040823)	487566.96
3626504.52	51.39993	(19040823)		
487586.96	3626504.52	51.09292	(19040823)	487606.96
3626504.52	50.97038	(19040823)		
487626.96	3626504.52	51.11243	(19040823)	487646.96
3626504.52	53.04686	(19021102)		
487666.96	3626504.52	54.92179	(19021102)	487686.96
3626504.52	55.38552	(19021102)		
487706.96	3626504.52	54.59335	(19021102)	487466.96
3626524.52	65.34501	(20122123)		
487486.96	3626524.52	66.28976	(20122123)	487506.96
3626524.52	68.12772	(20122123)		
487526.96	3626524.52	68.11291	(20122123)	487546.96
3626524.52	51.58865	(19040823)		
487566.96	3626524.52	51.04235	(19040823)	487586.96
3626524.52	51.35356	(19040823)		
487606.96	3626524.52	52.14276	(19040823)	487626.96
3626524.52	53.06977	(19040823)		
487646.96	3626524.52	54.14223	(19040823)	487666.96
3626524.52	55.54514	(19040823)		
487686.96	3626524.52	54.40762	(19040823)	487706.96
3626524.52	56.87444	(19021102)		
487726.96	3626524.52	59.62357	(19021102)	487746.96
3626524.52	64.83511	(19021102)		
487766.96	3626524.52	69.26726	(19021102)	487446.96
3626544.52	74.68074	(20122123)		
487466.96	3626544.52	74.33996	(20122123)	487486.96
3626544.52	75.38117	(20122123)		
487506.96	3626544.52	75.09338	(20122123)	487526.96
3626544.52	65.42945	(20122123)		
487546.96	3626544.52	58.52987	(20122123)	487566.96
3626544.52	50.02380	(19040823)		
487586.96	3626544.52	52.29666	(19040823)	487606.96
3626544.52	55.95583	(19040823)		
487626.96	3626544.52	54.92642	(19040823)	487646.96
3626544.52	56.12100	(19040823)		
487666.96	3626544.52	56.50579	(19040823)	487686.96
3626544.52	57.63310	(19040823)		
487706.96	3626544.52	60.96887	(19040823)	487726.96
3626544.52	64.24474	(19040823)		
487746.96	3626544.52	66.96390	(19040823)	487766.96
3626544.52	70.80212	(19040823)		

487786.96	3626544.52	75.00849	(19021102)	487806.96
3626544.52	79.61521	(19021102)		
487826.96	3626544.52	82.19134	(19021102)	487426.96
3626564.52	75.61694	(20122123)		
487446.96	3626564.52	76.81341	(20122123)	487466.96
3626564.52	77.65694	(20122123)		
487486.96	3626564.52	78.19215	(20122123)	487506.96
3626564.52	78.04787	(20122123)		
487526.96	3626564.52	73.90614	(20122123)	487546.96
3626564.52	47.43526	(20122123)		
487566.96	3626564.52	47.05537	(19040823)	487586.96
3626564.52	49.58096	(19040823)		
487606.96	3626564.52	75.75551	(20122123)	487626.96
3626564.52	53.55122	(19040823)		
487646.96	3626564.52	54.84058	(19040823)	487666.96
3626564.52	56.20833	(19040823)		
487686.96	3626564.52	59.06955	(19040823)	487706.96
3626564.52	61.08186	(19040823)		
487726.96	3626564.52	65.47674	(19040823)	487746.96
3626564.52	68.80071	(19040823)		
487766.96	3626564.52	72.22793	(19040823)	487786.96
3626564.52	78.54838	(19040823)		

*** AERMOD - VERSION 23132 *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

*** 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)		

487806.96	3626564.52	82.23433	(19040823)	487826.96
3626564.52	84.88516	(19040823)		
487846.96	3626564.52	88.46575	(19021102)	487866.96
3626564.52	94.32938	(19021102)		
487426.96	3626584.52	73.30098	(20122123)	487446.96
3626584.52	74.38258	(20122123)		
487466.96	3626584.52	76.36042	(20122123)	487486.96
3626584.52	76.05748	(20122123)		
487506.96	3626584.52	76.22971	(20122123)	487526.96
3626584.52	80.64185	(20122123)		
487546.96	3626584.52	44.94865	(21012122)	487566.96
3626584.52	43.72959	(21012122)		
487586.96	3626584.52	46.82596	(21012122)	487606.96
3626584.52	70.12386	(20122123)		
487626.96	3626584.52	48.92199	(19040823)	487646.96
3626584.52	51.40397	(19040823)		
487666.96	3626584.52	54.86834	(19040823)	487686.96
3626584.52	58.14682	(19040823)		
487706.96	3626584.52	59.56474	(19040823)	487726.96
3626584.52	65.30024	(19040823)		
487746.96	3626584.52	68.63657	(19040823)	487766.96
3626584.52	72.07085	(19040823)		
487786.96	3626584.52	77.72806	(19040823)	487806.96
3626584.52	82.30775	(19040823)		
487826.96	3626584.52	87.02358	(19040823)	487846.96
3626584.52	91.89195	(19040823)		
487866.96	3626584.52	98.32487	(19040823)	487886.96
3626584.52	102.75588	(19040823)		
487906.96	3626584.52	106.35082	(19021102)	487426.96
3626604.52	64.76510	(20122123)		
487446.96	3626604.52	67.64413	(20122123)	487466.96
3626604.52	70.22384	(20122123)		
487486.96	3626604.52	71.23239	(20122123)	487506.96
3626604.52	71.88821	(20122123)		
487526.96	3626604.52	74.41929	(20122123)	487546.96
3626604.52	50.76109	(21012122)		
487566.96	3626604.52	45.60990	(21012122)	487586.96
3626604.52	45.45687	(19050803)		
487606.96	3626604.52	48.39358	(21012122)	487626.96
3626604.52	51.08058	(21012122)		
487646.96	3626604.52	54.14122	(21012122)	487666.96
3626604.52	57.15062	(21012122)		
487686.96	3626604.52	58.58969	(21012122)	487706.96
3626604.52	59.62525	(21012122)		
487726.96	3626604.52	62.38121	(21012122)	487746.96
3626604.52	66.11198	(21012122)		
487766.96	3626604.52	69.07940	(19040823)	487786.96
3626604.52	73.85444	(19040823)		
487806.96	3626604.52	82.26980	(19040823)	487826.96

*** 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)		
487906.96	3626624.52	106.45945	(19040823)	487926.96
3626624.52	114.32983	(19040823)		
487946.96	3626624.52	123.28889	(19040823)	487406.96
3626644.52	64.68065	(19021223)		
487426.96	3626644.52	66.53321	(19021223)	487446.96
3626644.52	67.77794	(19021223)		
487466.96	3626644.52	66.82496	(19021223)	487486.96
3626644.52	67.68330	(19021223)		
487506.96	3626644.52	69.01724	(19021223)	487526.96
3626644.52	67.62999	(21012122)		
487546.96	3626644.52	50.31496	(21012122)	487566.96
3626644.52	43.27404	(19020205)		
487586.96	3626644.52	43.74909	(19020205)	487606.96
3626644.52	45.64026	(19020205)		
487626.96	3626644.52	48.58140	(19020205)	487646.96
3626644.52	53.32628	(19020205)		
487666.96	3626644.52	57.95118	(21012122)	487686.96
3626644.52	62.14699	(21012122)		
487706.96	3626644.52	69.34629	(21012122)	487726.96
3626644.52	72.64244	(21012122)		
487746.96	3626644.52	71.66584	(21012122)	487766.96
3626644.52	75.42331	(21012122)		
487786.96	3626644.52	117.98224	(20122123)	487806.96
3626644.52	127.07999	(20122123)		
487826.96	3626644.52	142.18361	(20122123)	487846.96
3626644.52	147.04740	(20122123)		
487866.96	3626644.52	99.11651	(21012122)	487886.96
3626644.52	105.18360	(21012122)		
487906.96	3626644.52	105.85771	(19050803)	487926.96
3626644.52	109.60464	(19050803)		
487946.96	3626644.52	119.51492	(19040823)	487966.96
3626644.52	129.71740	(19040823)		
487386.96	3626664.52	59.47264	(19021223)	487406.96
3626664.52	61.43603	(19021223)		
487426.96	3626664.52	63.25825	(19021223)	487446.96
3626664.52	65.05464	(19021223)		
487466.96	3626664.52	65.69724	(19021223)	487486.96
3626664.52	66.32983	(19021223)		
487506.96	3626664.52	65.38510	(19021223)	487526.96
3626664.52	64.48781	(21012122)		

487546.96	3626664.52	64.26661	(21012122)	487566.96
3626664.52	59.04399	(21012122)		
487586.96	3626664.52	50.05335	(21102401)	487606.96
3626664.52	49.56558	(21102401)		
487626.96	3626664.52	49.36469	(21102401)	487646.96
3626664.52	53.01350	(21102401)		
487666.96	3626664.52	57.87812	(21102401)	487686.96
3626664.52	64.00259	(21102401)		
487706.96	3626664.52	75.52280	(21012122)	487726.96
3626664.52	69.95871	(21102401)		
487746.96	3626664.52	91.73730	(21012122)	487766.96
3626664.52	103.79650	(21012122)		
487786.96	3626664.52	110.76028	(21012122)	487806.96
3626664.52	115.10304	(21012122)		
487826.96	3626664.52	125.98443	(20122123)	487846.96
3626664.52	134.99262	(20122123)		
487866.96	3626664.52	141.45727	(20122123)	487886.96
3626664.52	157.79683	(20122123)		
487906.96	3626664.52	163.72430	(20122123)	487926.96
3626664.52	119.12186	(19050803)		
487946.96	3626664.52	118.29616	(21102401)	487966.96
3626664.52	126.09490	(21102401)		
487986.96	3626664.52	136.79508	(19040823)	487386.96
3626684.52	58.20349	(20101601)		
487406.96	3626684.52	59.51899	(20101601)	487426.96
3626684.52	60.67568	(20101601)		
487446.96	3626684.52	61.68721	(20101601)	487466.96
3626684.52	62.84799	(20101601)		
487486.96	3626684.52	63.85662	(20101601)	487506.96
3626684.52	64.24534	(20101601)		
487526.96	3626684.52	63.17647	(20101601)	487546.96
3626684.52	65.27696	(20101601)		
487566.96	3626684.52	67.54370	(20101601)	487586.96
3626684.52	67.92209	(20101601)		
487606.96	3626684.52	59.11673	(21102401)	487626.96
3626684.52	54.78982	(21112423)		
487646.96	3626684.52	56.46447	(21112423)	487666.96
3626684.52	60.81680	(21112423)		
487686.96	3626684.52	67.33328	(21112423)	487706.96
3626684.52	80.22789	(20101601)		

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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

*** 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 PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
487726.96	3626684.52	85.06290	(20101601)	487746.96
3626684.52	97.43846	(20101601)		
487766.96	3626684.52	105.49216	(20101601)	487786.96
3626684.52	110.11103	(20101601)		
487806.96	3626684.52	115.24699	(20101601)	487826.96
3626684.52	121.96495	(21012122)		
487846.96	3626684.52	129.65000	(21012122)	487866.96
3626684.52	138.02993	(21012122)		
487886.96	3626684.52	148.07689	(21012122)	487906.96
3626684.52	156.30980	(21012122)		
487926.96	3626684.52	150.08056	(21012122)	487946.96
3626684.52	128.25299	(21112423)		
487966.96	3626684.52	135.71056	(21112423)	487986.96
3626684.52	146.82893	(21112423)		
488006.96	3626684.52	159.39652	(21112423)	487366.96
3626704.52	55.97733	(20013121)		
487386.96	3626704.52	57.32599	(20013121)	487406.96
3626704.52	58.82542	(20013121)		
487426.96	3626704.52	59.69789	(20013121)	487446.96
3626704.52	59.60570	(20013121)		
487466.96	3626704.52	60.73561	(20013121)	487486.96
3626704.52	61.20088	(20013121)		
487506.96	3626704.52	61.41505	(20013121)	487526.96
3626704.52	62.12848	(20013121)		
487546.96	3626704.52	62.67658	(20013121)	487566.96
3626704.52	64.54710	(20101601)		
487586.96	3626704.52	67.11019	(20101601)	487606.96
3626704.52	69.65873	(20101601)		
487626.96	3626704.52	69.72940	(21112423)	487646.96
3626704.52	62.39680	(21112423)		
487666.96	3626704.52	62.62536	(21112423)	487686.96

3626704.52	69.22775	(21112423)			
487706.96	3626704.52		79.86037	(21112423)	487726.96
3626704.52	89.19696	(20101601)			
487746.96	3626704.52		95.66654	(20101601)	487766.96
3626704.52	101.17224	(20101601)			
487786.96	3626704.52		105.44930	(20101601)	487806.96
3626704.52	109.87621	(20101601)			
487826.96	3626704.52		116.25524	(20101601)	487846.96
3626704.52	124.08312	(20101601)			
487866.96	3626704.52		132.90753	(20101601)	487886.96
3626704.52	141.86468	(20101601)			
487906.96	3626704.52		146.42847	(20101601)	487926.96
3626704.52	154.27904	(20101601)			
487946.96	3626704.52		146.12724	(21112423)	487966.96
3626704.52	138.43201	(21112423)			
487986.96	3626704.52		149.77727	(21112423)	488006.96
3626704.52	164.85567	(21112423)			
488026.96	3626704.52		182.25126	(21112423)	487386.96
3626724.52	58.09835	(20012319)			
487406.96	3626724.52		59.22045	(20012319)	487426.96
3626724.52	59.62886	(20012319)			
487446.96	3626724.52		60.57405	(20012319)	487466.96
3626724.52	61.90734	(20012319)			
487486.96	3626724.52		62.99406	(20012319)	487506.96
3626724.52	63.82214	(20012319)			
487526.96	3626724.52		64.14951	(20012319)	487546.96
3626724.52	65.44124	(20012319)			
487566.96	3626724.52		67.11184	(21112423)	487586.96
3626724.52	68.98715	(21112423)			
487606.96	3626724.52		69.61983	(21112423)	487626.96
3626724.52	72.16028	(21112423)			
487646.96	3626724.52		73.84851	(21112423)	487666.96
3626724.52	74.15231	(21112423)			
487686.96	3626724.52		78.93513	(21112423)	487706.96
3626724.52	83.73763	(21112423)			
487726.96	3626724.52		90.87363	(21112423)	487746.96
3626724.52	96.20045	(20012319)			
487766.96	3626724.52		100.99408	(20012319)	487786.96
3626724.52	105.73441	(20012319)			
487806.96	3626724.52		111.78631	(20012319)	487826.96
3626724.52	115.64729	(20012319)			
487846.96	3626724.52		120.53741	(20012319)	487866.96
3626724.52	129.06601	(20012319)			
487886.96	3626724.52		137.67118	(20012319)	487906.96
3626724.52	140.92002	(21112423)			
487926.96	3626724.52		138.97986	(21112423)	487946.96
3626724.52	125.97555	(21112423)			
487966.96	3626724.52		127.83251	(21112423)	487986.96
3626724.52	140.57949	(21020701)			

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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 PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
488006.96	3626724.52	155.70471 (21020701)	488026.96
3626724.52	174.38796 (21101502)		
488046.96	3626724.52	199.74985 (21101502)	487406.96
3626744.52	59.20343 (20012319)		
487426.96	3626744.52	59.29216 (20012319)	487446.96
3626744.52	60.85012 (20012319)		
487466.96	3626744.52	62.15316 (20012319)	487486.96
3626744.52	63.24906 (20012319)		
487506.96	3626744.52	64.00992 (20012319)	487526.96
3626744.52	64.29722 (21112423)		
487546.96	3626744.52	66.14418 (21112423)	487566.96
3626744.52	67.93493 (21112423)		
487586.96	3626744.52	69.17457 (21112423)	487606.96
3626744.52	69.83715 (21112423)		
487626.96	3626744.52	72.50467 (21112423)	487646.96
3626744.52	74.40571 (21112423)		
487666.96	3626744.52	76.42893 (21112423)	487686.96
3626744.52	79.18330 (21112423)		
487706.96	3626744.52	82.23421 (21112423)	487726.96
3626744.52	88.08748 (21112423)		
487746.96	3626744.52	92.16998 (21112423)	487766.96
3626744.52	96.02739 (21112423)		

487786.96	3626744.52	100.10517	(21112423)	487806.96
3626744.52	105.77794	(19091906)		
487826.96	3626744.52	109.51523	(19091906)	487846.96
3626744.52	113.44784	(19091906)		
487866.96	3626744.52	121.23390	(21120107)	487886.96
3626744.52	131.79108	(21120107)		
487906.96	3626744.52	138.01638	(21120107)	487926.96
3626744.52	127.65929	(21020701)		
487946.96	3626744.52	125.72869	(21020701)	487966.96
3626744.52	136.19043	(21020701)		
487986.96	3626744.52	147.44145	(21101502)	488006.96
3626744.52	161.89358	(21101502)		
488026.96	3626744.52	180.85026	(21101502)	488046.96
3626744.52	213.80190	(19121406)		
488066.96	3626744.52	256.64473	(19120716)	487446.96
3626764.52	58.94204	(19011621)		
487466.96	3626764.52	60.48205	(19011621)	487486.96
3626764.52	60.24208	(20012319)		
487506.96	3626764.52	60.97541	(21112423)	487526.96
3626764.52	62.18550	(21112423)		
487546.96	3626764.52	63.95308	(21112423)	487566.96
3626764.52	65.29385	(21112423)		
487586.96	3626764.52	66.43252	(21112423)	487606.96
3626764.52	67.61945	(21112423)		
487626.96	3626764.52	68.88128	(21112423)	487646.96
3626764.52	70.91032	(21112423)		
487666.96	3626764.52	73.20665	(19091906)	487686.96
3626764.52	75.80144	(19091906)		
487706.96	3626764.52	77.75026	(19091906)	487726.96
3626764.52	81.71499	(19091906)		
487746.96	3626764.52	86.80648	(21120107)	487766.96
3626764.52	94.52805	(21120107)		
487786.96	3626764.52	102.19917	(21120107)	487806.96
3626764.52	109.27782	(21120107)		
487826.96	3626764.52	116.84245	(21120107)	487846.96
3626764.52	123.61701	(21120107)		
487866.96	3626764.52	129.10297	(21120107)	487886.96
3626764.52	137.61052	(21120107)		
487906.96	3626764.52	141.15258	(21020701)	487926.96
3626764.52	141.22234	(21020701)		
487946.96	3626764.52	133.21091	(21101502)	487966.96
3626764.52	150.72696	(21101502)		
487986.96	3626764.52	180.44929	(21020701)	488006.96
3626764.52	194.34683	(20122119)		
488026.96	3626764.52	206.34448	(19121406)	488046.96
3626764.52	221.64774	(19120405)		
488066.96	3626764.52	284.88941	(19120716)	488086.96
3626764.52	362.48411	(19120716)		
487466.96	3626784.52	58.82599	(19122507)	487486.96
3626784.52	59.08167	(19122507)		

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487506.96 3626784.52 59.96055 (19122507) 487526.96
3626784.52 61.86502 (19122507)
487546.96 3626784.52 62.96438 (19122507) 487566.96
3626784.52 63.88884 (19091906)
487586.96 3626784.52 65.04310 (19091906) 487606.96
3626784.52 66.53266 (19091906)
487626.96 3626784.52 68.31416 (19091906) 487646.96
3626784.52 70.94981 (21120107)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

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*** 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 , . . . ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)
487666.96	3626784.52	74.81470	(21120107)	487686.96
3626784.52	78.79562	(21120107)		
487706.96	3626784.52	83.71500	(21120107)	487726.96
3626784.52	87.83583	(21120107)		
487746.96	3626784.52	93.28858	(21120107)	487766.96
3626784.52	100.37788	(21120107)		
487786.96	3626784.52	107.83530	(21120107)	487806.96
3626784.52	113.71016	(21120107)		
487826.96	3626784.52	119.80094	(21120107)	487846.96
3626784.52	126.23192	(21020701)		
487866.96	3626784.52	133.88956	(21020701)	487886.96
3626784.52	140.63669	(21020701)		
487906.96	3626784.52	145.20765	(21020701)	487926.96

3626784.52	152.98389	(21020701)		
487946.96	3626784.52	159.90298	(19050905)	487966.96
3626784.52	174.63239	(20122119)		
487986.96	3626784.52	193.23443	(20122119)	488006.96
3626784.52	211.65310	(19121406)		
488026.96	3626784.52	240.17496	(19120404)	488046.96
3626784.52	250.34642	(19120405)		
487506.96	3626804.52	58.37914	(19122507)	487526.96
3626804.52	61.06396	(20040823)		
487546.96	3626804.52	61.61945	(21120107)	487566.96
3626804.52	64.62336	(21120107)		
487586.96	3626804.52	67.42296	(21120107)	487606.96
3626804.52	70.74727	(21120107)		
487626.96	3626804.52	74.92054	(21120107)	487646.96
3626804.52	77.54013	(21120107)		
487666.96	3626804.52	80.58304	(21120107)	487686.96
3626804.52	84.50207	(21120107)		
487706.96	3626804.52	89.47828	(21120107)	487726.96
3626804.52	92.40671	(21120107)		
487746.96	3626804.52	96.21157	(21120107)	487766.96
3626804.52	101.30864	(21020701)		
487786.96	3626804.52	108.31899	(21020701)	487806.96
3626804.52	114.67499	(21020701)		
487826.96	3626804.52	120.78239	(21020701)	487846.96
3626804.52	127.02010	(21020701)		
487866.96	3626804.52	133.12880	(21020701)	487886.96
3626804.52	136.61039	(19050905)		
487906.96	3626804.52	144.75823	(21090905)	487926.96
3626804.52	154.71143	(20122119)		
487946.96	3626804.52	167.74737	(20122119)	487966.96
3626804.52	181.85808	(19121406)		
487986.96	3626804.52	205.64525	(19120404)	487526.96
3626824.52	64.22146	(21120107)		
487546.96	3626824.52	67.31988	(21120107)	487566.96
3626824.52	70.18663	(21120107)		
487586.96	3626824.52	72.34564	(21120107)	487606.96
3626824.52	74.03273	(21120107)		
487626.96	3626824.52	77.58065	(21120107)	487646.96
3626824.52	80.01130	(21120107)		
487666.96	3626824.52	82.23261	(21120107)	487686.96
3626824.52	85.08288	(21120107)		
487706.96	3626824.52	89.29131	(21020701)	487726.96
3626824.52	94.98139	(21020701)		
487746.96	3626824.52	100.25000	(21020701)	487766.96
3626824.52	104.28533	(21020701)		
487786.96	3626824.52	107.20871	(21020701)	487806.96
3626824.52	111.72502	(19050905)		
487826.96	3626824.52	116.25256	(19050905)	487846.96
3626824.52	123.07558	(21090905)		
487866.96	3626824.52	132.10720	(21090905)	487886.96

3626824.52 141.73858 (20122119)
 487546.96 3626844.52 70.07562 (21120107) 487566.96
 3626844.52 71.86459 (21120107)
 487586.96 3626844.52 73.41864 (21120107) 487606.96
 3626844.52 74.65289 (21120107)
 487626.96 3626844.52 77.01137 (21020701) 487646.96
 3626844.52 80.28442 (21020701)
 487666.96 3626844.52 83.79618 (21020701) 487686.96
 3626844.52 87.57039 (21020701)
 487706.96 3626844.52 90.47189 (21020701) 487726.96
 3626844.52 94.44019 (21020701)
 487746.96 3626844.52 97.60285 (19050905) 487766.96
 3626844.52 100.25511 (19050905)
 487786.96 3626844.52 103.50476 (21090905) 487806.96
 3626844.52 110.52627 (21090905)
 487826.96 3626844.52 117.07242 (21090905) 487846.96
 3626844.52 125.31332 (20122119)

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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

*** 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 PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
487546.96	3626864.52	69.78216 (21120107)	487566.96
3626864.52	71.18807 (21020701)		
487586.96	3626864.52	73.53365 (21020701)	487606.96
3626864.52	76.19741 (21020701)		

487626.96	3626864.52	78.99372	(21020701)	487646.96
3626864.52	80.86144	(21020701)		
487666.96	3626864.52	83.22747	(21020701)	487686.96
3626864.52	86.04182	(19050905)		
487706.96	3626864.52	87.91449	(19050905)	487726.96
3626864.52	89.96564	(19050905)		
487746.96	3626864.52	94.93886	(21090905)	487766.96
3626864.52	100.19397	(21090905)		
487786.96	3626864.52	106.15244	(20122119)	487806.96
3626864.52	112.44992	(20122119)		
487566.96	3626884.52	72.92708	(21020701)	487586.96
3626884.52	73.94469	(21020701)		
487606.96	3626884.52	75.41499	(21020701)	487626.96
3626884.52	78.39662	(19050905)		
487646.96	3626884.52	79.30652	(19050905)	487666.96
3626884.52	80.23040	(19050905)		
487686.96	3626884.52	83.42316	(21090905)	487706.96
3626884.52	87.36299	(21090905)		
487726.96	3626884.52	91.96734	(21090905)	487746.96
3626884.52	96.78785	(20122119)		
487766.96	3626884.52	102.34905	(20122119)	487786.96
3626884.52	107.52367	(20122119)		
487586.96	3626904.52	72.21416	(19050905)	487606.96
3626904.52	72.85530	(19050905)		
487626.96	3626904.52	76.72516	(21100321)	487646.96
3626904.52	79.73187	(21100321)		
487666.96	3626904.52	82.82550	(21090905)	487686.96
3626904.52	86.12969	(21090905)		
487706.96	3626904.52	89.09319	(20122119)	487726.96
3626904.52	93.61163	(20122119)		
487746.96	3626904.52	97.27469	(20122119)	487766.96
3626904.52	101.58280	(19121406)		
487626.96	3626924.52	77.97216	(21100321)	487646.96
3626924.52	81.12252	(21100321)		
487666.96	3626924.52	84.88703	(20122119)	487686.96
3626924.52	88.16070	(20122119)		
487706.96	3626924.52	90.25172	(20122119)	487726.96
3626924.52	93.23092	(19121406)		
487746.96	3626924.52	99.22855	(19121406)	487646.96
3626944.52	81.66220	(20122119)		
487666.96	3626944.52	83.96240	(20122119)	487686.96
3626944.52	85.93166	(19121406)		
487706.96	3626944.52	91.66447	(19121406)	487726.96
3626944.52	98.35531	(20031323)		
487666.96	3626964.52	84.41125	(19121406)	487686.96
3626964.52	88.67320	(19121406)		
487706.96	3626964.52	98.25160	(20031323)	487686.96
3626984.52	96.81164	(20031323)		
488242.19	3625436.42	36.41743	(19032623)	488262.19
3625436.42	38.59408	(19032623)		

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
488322.19	3625516.42	39.91108	(19110723)	488342.19
3625516.42	39.31689	(20091122)		
488362.19	3625516.42	40.96055	(19080704)	488382.19
3625516.42	43.01718	(19080704)		
488402.19	3625516.42	41.39786	(19080704)	488422.19
3625516.42	38.40823	(20070402)		
488442.19	3625516.42	37.23616	(20070402)	488462.19
3625516.42	37.05504	(21091105)		
488482.19	3625516.42	37.11054	(20021420)	488222.19
3625536.42	39.97376	(21011221)		
488242.19	3625536.42	40.82288	(19032623)	488262.19
3625536.42	42.61725	(19032623)		
488282.19	3625536.42	40.89908	(19032623)	488302.19
3625536.42	40.41676	(21080305)		
488322.19	3625536.42	40.78081	(19110723)	488342.19
3625536.42	40.18566	(20091122)		
488362.19	3625536.42	42.31860	(19080704)	488382.19
3625536.42	43.87080	(19080704)		
488402.19	3625536.42	41.59881	(19080704)	488422.19
3625536.42	39.18113	(20070402)		
488442.19	3625536.42	37.67923	(20072602)	488462.19
3625536.42	37.91134	(21091105)		
488482.19	3625536.42	37.91025	(20021420)	488502.19
3625536.42	38.67700	(19100724)		
488522.19	3625536.42	39.81333	(19052822)	488542.19
3625536.42	41.66305	(19052822)		
488222.19	3625556.42	40.89038	(21011221)	488242.19
3625556.42	41.79177	(19032623)		
488262.19	3625556.42	43.48157	(19032623)	488282.19
3625556.42	41.51250	(19032623)		
488302.19	3625556.42	41.31032	(21080305)	488322.19
3625556.42	41.64178	(19110723)		
488342.19	3625556.42	41.03460	(20091122)	488362.19
3625556.42	43.66164	(19080704)		
488382.19	3625556.42	44.65595	(19080704)	488402.19
3625556.42	41.69519	(19080704)		
488422.19	3625556.42	39.86663	(20070402)	488442.19
3625556.42	38.37548	(20072602)		
488462.19	3625556.42	38.68442	(21091105)	488482.19
3625556.42	38.82487	(19100724)		
488502.19	3625556.42	39.72372	(21110719)	488522.19
3625556.42	41.54619	(19052822)		
488542.19	3625556.42	42.45603	(19052822)	488562.19
3625556.42	40.05809	(19052822)		
488202.19	3625576.42	42.31519	(20050606)	488222.19

3625576.42	41.82623	(21011221)			
488242.19	3625576.42	42.79258	(19032623)		488262.19
3625576.42	44.36662	(19032623)			
488282.19	3625576.42	42.12967	(19032623)		488302.19
3625576.42	42.21684	(21080305)			
488322.19	3625576.42	42.49950	(19110723)		488342.19
3625576.42	41.86560	(20091122)			
488362.19	3625576.42	44.97995	(19080704)		488382.19
3625576.42	45.35989	(19080704)			
488402.19	3625576.42	41.67640	(19080704)		488422.19
3625576.42	40.44914	(20070402)			
488442.19	3625576.42	39.52134	(21091105)		488462.19
3625576.42	39.45877	(19082401)			
488482.19	3625576.42	40.07610	(19100724)		488502.19
3625576.42	41.06560	(21110719)			
488522.19	3625576.42	43.07374	(19052822)		488542.19
3625576.42	42.94465	(19052822)			
488562.19	3625576.42	40.10263	(19032522)		488582.19
3625576.42	40.10640	(19101221)			
488122.19	3625596.42	42.61748	(21102122)		488142.19
3625596.42	42.61338	(20111220)			
488162.19	3625596.42	43.78888	(19100801)		488182.19
3625596.42	43.98995	(20113019)			
488202.19	3625596.42	43.27052	(20050606)		488222.19
3625596.42	42.78769	(21011221)			
488242.19	3625596.42	43.82666	(19032623)		488262.19
3625596.42	45.27281	(19032623)			
488282.19	3625596.42	42.74975	(19032623)		488302.19
3625596.42	43.13231	(21080305)			
488322.19	3625596.42	43.35116	(19110723)		488342.19
3625596.42	42.68697	(20011019)			
488362.19	3625596.42	46.26357	(19080704)		488382.19
3625596.42	45.97170	(19080704)			
488402.19	3625596.42	41.54392	(20070402)		488422.19
3625596.42	40.91627	(20070402)			

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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 PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
488522.19	3625596.42	44.34969	(19052822)	488542.19
3625596.42	43.09860	(19052822)		
488562.19	3625596.42	41.30505	(19101221)	488582.19
3625596.42	40.82380	(20011720)		
488602.19	3625596.42	40.47854	(21082504)	488062.19
3625616.42	43.08954	(20021423)		
488082.19	3625616.42	43.13330	(20090823)	488102.19
3625616.42	43.38931	(20021323)		
488122.19	3625616.42	43.39349	(21102122)	488142.19
3625616.42	43.48325	(20111220)		
488162.19	3625616.42	44.71301	(19100801)	488182.19
3625616.42	44.93957	(20113019)		
488202.19	3625616.42	44.24791	(20050606)	488222.19
3625616.42	43.78080	(21011221)		
488242.19	3625616.42	44.89636	(19032623)	488262.19
3625616.42	46.20148	(19032623)		
488282.19	3625616.42	43.68413	(21080305)	488302.19
3625616.42	44.11848	(19110723)		
488322.19	3625616.42	44.19190	(19110723)	488342.19
3625616.42	44.05222	(19080704)		
488362.19	3625616.42	47.49967	(19080704)	488382.19
3625616.42	46.47941	(19080704)		
488402.19	3625616.42	42.58565	(20070402)	488522.19
3625616.42	45.32889	(19052822)		
488542.19	3625616.42	42.89434	(19052822)	488562.19
3625616.42	42.24587	(19101221)		
488582.19	3625616.42	41.75859	(20011720)	488602.19
3625616.42	41.45769	(21082504)		
488062.19	3625636.42	44.06920	(20021423)	488082.19
3625636.42	44.13162	(20090823)		
488102.19	3625636.42	44.41046	(20021323)	488122.19
3625636.42	44.17312	(21102122)		
488142.19	3625636.42	44.37484	(21102122)	488162.19
3625636.42	45.66529	(19100801)		
488182.19	3625636.42	45.92333	(20113019)	488202.19
3625636.42	45.25531	(20050606)		

488222.19	3625636.42	44.80805	(21011221)	488242.19
3625636.42	46.00303 (19032623)			
488262.19	3625636.42	47.15228	(19032623)	488282.19
3625636.42	44.87326 (21080305)			
488302.19	3625636.42	45.29927	(19110723)	488322.19
3625636.42	45.01750 (19110723)			
488342.19	3625636.42	45.77374	(19080704)	488362.19
3625636.42	48.67760 (19080704)			
488382.19	3625636.42	46.87223	(19080704)	488522.19
3625636.42	45.96823 (19052822)			
488542.19	3625636.42	42.94148	(19032522)	488562.19
3625636.42	42.85771 (19101221)			
488582.19	3625636.42	42.31924	(20011720)	488602.19
3625636.42	42.05041 (21082504)			
488622.19	3625636.42	40.85541	(21082623)	488062.19
3625656.42	45.01763 (20021423)			
488082.19	3625656.42	45.11630	(20090823)	488102.19
3625656.42	45.43107 (20021323)			
488122.19	3625656.42	44.95490	(21102122)	488142.19
3625656.42	45.43582 (21102122)			
488162.19	3625656.42	46.64669	(19100801)	488182.19
3625656.42	46.94297 (20113019)			
488202.19	3625656.42	46.29384	(20050606)	488222.19
3625656.42	45.87105 (21011221)			
488242.19	3625656.42	47.14838	(19032623)	488262.19
3625656.42	48.12557 (19032623)			
488282.19	3625656.42	46.09424	(21080305)	488302.19
3625656.42	46.49356 (19110723)			
488322.19	3625656.42	46.09325	(20011019)	488342.19
3625656.42	47.49774 (19080704)			
488362.19	3625656.42	49.78445	(19080704)	488382.19
3625656.42	47.13854 (19080704)			
488522.19	3625656.42	46.22926	(19052822)	488542.19
3625656.42	44.26874 (19101221)			
488582.19	3625656.42	43.44244	(21082504)	488602.19
3625656.42	42.21589 (21082504)			
488622.19	3625656.42	42.16700	(21082623)	488642.19
3625656.42	42.81724 (19100803)			
488062.19	3625676.42	45.93521	(20021423)	488082.19
3625676.42	46.08306 (20090823)			
488102.19	3625676.42	46.45730	(19100222)	488122.19
3625676.42	45.73917 (21102122)			
488142.19	3625676.42	46.52203	(21102122)	488162.19
3625676.42	47.65922 (19100801)			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

*** AERMET - VERSION 22112 *** ***
*** 11:15:09

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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 PM_10 IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
488182.19	3625676.42	48.00022	(20113019)	488202.19
3625676.42	47.36875	(20050606)		
488222.19	3625676.42	46.97175	(21011221)	488242.19
3625676.42	48.33262	(19032623)		
488262.19	3625676.42	49.12028	(19032623)	488282.19
3625676.42	47.34671	(21080305)		
488302.19	3625676.42	47.70231	(19110723)	488322.19
3625676.42	47.28829	(20011019)		
488342.19	3625676.42	49.21312	(19080704)	488362.19
3625676.42	50.80567	(19080704)		
488382.19	3625676.42	47.26524	(19080704)	488582.19
3625676.42	44.35185	(21082504)		
488602.19	3625676.42	42.61963	(21082623)	488622.19
3625676.42	43.33283	(19100803)		
488642.19	3625676.42	45.05371	(20102522)	488062.19
3625696.42	46.80804	(20021423)		
488082.19	3625696.42	47.02783	(20090823)	488102.19
3625696.42	47.54986	(19100222)		
488122.19	3625696.42	46.52390	(21102122)	488142.19
3625696.42	47.63218	(21102122)		
488162.19	3625696.42	48.70262	(19100801)	488182.19
3625696.42	49.09621	(20113019)		
488202.19	3625696.42	48.48657	(20050606)	488222.19
3625696.42	48.11299	(21011221)		
488242.19	3625696.42	49.55887	(19032623)	488262.19
3625696.42	50.13836	(19032623)		
488282.19	3625696.42	48.62844	(21080305)	488302.19

3625696.42	48.92534	(19110723)		
488322.19	3625696.42	48.47784	(20011019)	488342.19
3625696.42	50.90838	(19080704)		
488362.19	3625696.42	51.72688	(19080704)	488382.19
3625696.42	47.24382	(19080704)		
488582.19	3625696.42	44.80903	(21082504)	488602.19
3625696.42	44.21997	(21082623)		
488622.19	3625696.42	44.97916	(19100803)	488642.19
3625696.42	46.93231	(20102522)		
488662.19	3625696.42	46.00126	(20102522)	488042.19
3625716.42	46.82417	(20112124)		
488142.19	3625716.42	48.76588	(21102122)	488162.19
3625716.42	49.77756	(19100801)		
488182.19	3625716.42	50.23257	(20113019)	488202.19
3625716.42	49.65071	(20050606)		
488222.19	3625716.42	49.30168	(21011221)	488242.19
3625716.42	50.82953	(19032623)		
488262.19	3625716.42	51.18057	(19032623)	488282.19
3625716.42	49.93902	(21080305)		
488302.19	3625716.42	50.16041	(19110723)	488322.19
3625716.42	49.65427	(20011019)		
488342.19	3625716.42	52.57010	(19080704)	488362.19
3625716.42	52.53232	(19080704)		
488382.19	3625716.42	47.89912	(19101301)	488602.19
3625716.42	45.36270	(21082623)		
488622.19	3625716.42	46.94889	(20102522)	488642.19
3625716.42	48.06071	(20102522)		
488662.19	3625716.42	46.00904	(19082901)	488682.19
3625716.42	47.07704	(19082901)		
488022.19	3625736.42	48.22306	(20021922)	488042.19
3625736.42	47.97249	(20112124)		
488182.19	3625736.42	51.41131	(20113019)	488202.19
3625736.42	50.86308	(21090305)		
488222.19	3625736.42	50.53850	(21011221)	488242.19
3625736.42	52.14386	(19032623)		
488262.19	3625736.42	52.24381	(19032623)	488282.19
3625736.42	51.28148	(21080305)		
488302.19	3625736.42	51.39996	(19110723)	488322.19
3625736.42	50.81500	(20011019)		
488362.19	3625736.42	53.20617	(19080704)	488382.19
3625736.42	48.80411	(20070402)		
488402.19	3625736.42	48.13614	(21091105)	488602.19
3625736.42	47.29252	(19100803)		
488622.19	3625736.42	49.11043	(20102522)	488642.19
3625736.42	48.34188	(20102522)		
488662.19	3625736.42	48.13171	(19082901)	488682.19
3625736.42	47.30965	(19082901)		
488702.19	3625736.42	43.08293	(19082901)	488002.19
3625756.42	49.56933	(21120123)		
488022.19	3625756.42	49.14086	(20021922)	488182.19

3625756.42 52.63502 (20113019)
 488202.19 3625756.42 52.14611 (21090305) 488222.19
 3625756.42 51.82889 (21011221)
 *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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 PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
488242.19	3625756.42	53.50574	(19032623)	488262.19
3625756.42	53.33027	(19032623)		
488282.19	3625756.42	52.64425	(21080305)	488382.19
3625756.42	49.86143	(20070402)		
488602.19	3625756.42	48.96260	(20102522)	488622.19
3625756.42	50.46267	(20102522)		
488642.19	3625756.42	48.26966	(19082901)	488662.19
3625756.42	49.34719	(19082901)		
488682.19	3625756.42	46.55499	(19082901)	488702.19
3625756.42	43.85179	(21102121)		
487982.19	3625776.42	49.20563	(21120123)	488002.19
3625776.42	50.87187	(21120123)		
488222.19	3625776.42	53.17762	(21011221)	488242.19
3625776.42	54.91854	(19032623)		
488262.19	3625776.42	54.44109	(19032623)	488622.19
3625776.42	50.88586	(20102522)		
488642.19	3625776.42	50.54395	(19082901)	488662.19
3625776.42	49.53547	(19082901)		

488682.19	3625776.42	45.17524	(21102121)	488702.19
3625776.42	44.62615 (19011021)			
488722.19	3625776.42	43.79208	(19011021)	487982.19
3625796.42	49.66066 (20030603)			
488222.19	3625796.42	54.58657	(21011221)	488242.19
3625796.42	56.38279 (19032623)			
488262.19	3625796.42	55.57509	(19032623)	488622.19
3625796.42	50.73193 (19082901)			
488642.19	3625796.42	51.81366	(19082901)	488662.19
3625796.42	48.63736 (19082901)			
488682.19	3625796.42	46.25428	(21102121)	488702.19
3625796.42	45.63698 (19011021)			
488722.19	3625796.42	44.84604	(21060824)	488742.19
3625796.42	45.14522 (21060824)			
488222.19	3625816.42	56.06007	(21011221)	488242.19
3625816.42	57.90142 (19032623)			
488262.19	3625816.42	56.73317	(19032623)	488642.19
3625816.42	51.94483 (19082901)			
488662.19	3625816.42	47.82848	(21102121)	488682.19
3625816.42	47.16935 (19032622)			
488702.19	3625816.42	46.23269	(19082503)	488722.19
3625816.42	46.56669 (21060824)			
488742.19	3625816.42	46.61933	(21081502)	488762.19
3625816.42	45.29372 (21081502)			
488202.19	3625836.42	57.88241	(21090305)	488222.19
3625836.42	57.60359 (21011221)			
488242.19	3625836.42	59.47780	(19032623)	488662.19
3625836.42	48.83084 (21102121)			
488682.19	3625836.42	48.09458	(19032622)	488702.19
3625836.42	47.67505 (21060824)			
488722.19	3625836.42	47.58719	(21081502)	488742.19
3625836.42	47.26129 (21081502)			
488762.19	3625836.42	45.50234	(20071101)	488782.19
3625836.42	45.28783 (20071101)			
488202.19	3625856.42	59.48861	(21090305)	488222.19
3625856.42	59.21690 (21011221)			
488242.19	3625856.42	61.10758	(19032623)	488682.19
3625856.42	48.99288 (19082503)			
488702.19	3625856.42	49.10414	(21060824)	488722.19
3625856.42	48.99272 (21081502)			
488742.19	3625856.42	46.77286	(19032804)	488762.19
3625856.42	46.88741 (20071101)			
488782.19	3625856.42	46.14000	(20081023)	488802.19
3625856.42	45.22067 (20112119)			
488822.19	3625856.42	44.01149	(19101422)	488202.19
3625876.42	61.16304 (21090305)			
488222.19	3625876.42	60.90593	(21011221)	488662.19
3625876.42	50.78482 (19032622)			
488682.19	3625876.42	50.61903	(21060824)	488702.19
3625876.42	50.42144 (21081502)			

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488722.19 3625876.42 49.00551 (21081502) 488742.19
3625876.42 48.36805 (20071101)
488762.19 3625876.42 47.48144 (20081023) 488782.19
3625876.42 46.63754 (20112119)
488802.19 3625876.42 45.65205 (20112119) 488822.19
3625876.42 44.52526 (19101422)
488842.19 3625876.42 43.01281 (20100520) 488202.19
3625896.42 62.92244 (21090305)
488222.19 3625896.42 62.67494 (21011221) 488642.19
3625896.42 53.11731 (19032622)
488662.19 3625896.42 51.90515 (19082503) 488682.19
3625896.42 51.66206 (21060824)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
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, L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
, L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
, L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
488702.19	3625896.42	51.23260 (21081502)	488722.19
3625896.42	49.69502 (20071101)		
488742.19	3625896.42	49.13872 (20071101)	488762.19
3625896.42	48.19823 (20081023)		
488782.19	3625896.42	47.48047 (20112119)	488802.19
3625896.42	46.15544 (19101422)		
488822.19	3625896.42	44.47559 (20100520)	488842.19
3625896.42	43.92573 (19050206)		
488862.19	3625896.42	43.78233 (20071102)	488882.19

3625896.42	43.45350	(20081323)		
488902.19	3625896.42		42.41257	(20081323)
3625916.42	64.77036	(21090305)		488202.19
488222.19	3625916.42		64.53432	(21011221)
3625916.42	53.94415	(19082503)		488642.19
488662.19	3625916.42		53.65563	(21060824)
3625916.42	53.18741	(21081502)		488682.19
488702.19	3625916.42		50.89716	(21082922)
3625916.42	49.29486	(20112119)		488762.19
488782.19	3625916.42		47.79063	(19101422)
3625916.42	45.95584	(20100520)		488802.19
488822.19	3625916.42		45.44943	(19050206)
3625916.42	45.07878	(20071102)		488842.19
488862.19	3625916.42		44.75112	(20081323)
3625916.42	43.81076	(20081323)		488882.19
488902.19	3625916.42		42.83202	(19092021)
3625916.42	42.14543	(19101420)		488922.19
488942.19	3625916.42		42.42956	(19042003)
3625936.42	66.49305	(21011221)		488222.19
488622.19	3625936.42		56.40620	(19032622)
3625936.42	55.32421	(19100804)		488642.19
488662.19	3625936.42		54.78711	(21081502)
3625936.42	53.26408	(21081502)		488682.19
488782.19	3625936.42		47.71530	(19101422)
3625936.42	47.01728	(19050206)		488802.19
488822.19	3625936.42		46.44556	(19091122)
3625936.42	46.09839	(20081323)		488842.19
488862.19	3625936.42		45.27400	(20081323)
3625936.42	44.18052	(19092021)		488882.19
488902.19	3625936.42		43.41035	(19101420)
3625936.42	43.73661	(19042003)		488922.19
488942.19	3625936.42		44.35868	(19042003)
3625936.42	43.52086	(19042003)		488962.19
488982.19	3625936.42		41.37164	(19042003)
3625936.42	39.56348	(20082723)		489002.19
488602.19	3625956.42		58.80596	(19032622)
3625956.42	57.49319	(19082503)		488622.19
488642.19	3625956.42		56.87449	(19100804)
3625956.42	55.81123	(21081502)		488662.19
488782.19	3625956.42		48.62156	(19050206)
3625956.42	47.88454	(19091122)		488802.19
488822.19	3625956.42		47.49648	(20081323)
3625956.42	46.80467	(20081323)		488842.19
488862.19	3625956.42		45.59481	(19092021)
3625956.42	44.73863	(19101420)		488882.19
488902.19	3625956.42		45.10592	(19092021)
3625956.42	45.70844	(19042003)		488922.19
488942.19	3625956.42		44.77169	(19042003)
3625956.42	42.45929	(19042003)		488962.19
488982.19	3625956.42		40.73146	(20082723)

3625956.42	39.76998	(19082501)			
489022.19	3625956.42	39.34552	(21070304)		489042.19
3625956.42	39.20684	(21070304)			
489062.19	3625956.42	38.10005	(21070304)		489082.19
3625956.42	37.26091	(20101020)			
488622.19	3625976.42	59.22541	(19100804)		488802.19
3625976.42	48.94775	(20081323)			
488822.19	3625976.42	48.40769	(20081323)		488842.19
3625976.42	47.08062	(19092021)			
488862.19	3625976.42	46.13568	(19101420)		488882.19
3625976.42	46.54448	(19042003)			
488902.19	3625976.42	47.11993	(19042003)		488922.19
3625976.42	46.07366	(19042003)			
488942.19	3625976.42	43.58657	(19042003)		488962.19
3625976.42	41.93742	(20082723)			
488982.19	3625976.42	40.95881	(19082501)		489002.19
3625976.42	40.58514	(21070304)			
489022.19	3625976.42	40.23818	(21070304)		489042.19
3625976.42	38.98277	(20101020)			
489062.19	3625976.42	38.15014	(20101020)		489082.19
3625976.42	37.53592	(19030322)			

*** AERMOD - VERSION 23132 *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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)		

489102.19	3625976.42	36.55134	(20071024)	489122.19
3625976.42	36.10654	(21020920)		
488802.19	3625996.42	50.08629	(20081323)	488822.19
3625996.42	48.63979	(19092021)		
488842.19	3625996.42	47.65070	(21080202)	488922.19
3625996.42	44.75468	(19042003)		
488942.19	3625996.42	43.18182	(20082723)	488962.19
3625996.42	42.18109	(19082501)		
488982.19	3625996.42	41.84975	(21070304)	489002.19
3625996.42	41.27429	(21070304)		
489022.19	3625996.42	40.09908	(20101020)	489042.19
3625996.42	39.01737	(20101020)		
489062.19	3625996.42	38.38844	(19030322)	489082.19
3625996.42	37.61478	(20071024)		
489102.19	3625996.42	37.30572	(21020920)	489122.19
3625996.42	36.89934	(21020920)		
489142.19	3625996.42	36.26633	(20062624)	488802.19
3626016.42	50.28008	(19092021)		
488822.19	3626016.42	49.26151	(21080202)	488842.19
3626016.42	49.65319	(19042003)		
488982.19	3626016.42	42.31357	(21070304)	489002.19
3626016.42	41.21230	(20101020)		
489022.19	3626016.42	39.94039	(19030322)	489042.19
3626016.42	39.19734	(19030322)		
489062.19	3626016.42	38.64509	(20071024)	489082.19
3626016.42	38.46815	(21020920)		
489102.19	3626016.42	37.78422	(21020920)	489122.19
3626016.42	37.29668	(20062624)		
489142.19	3626016.42	36.48090	(20062624)	488782.19
3626036.42	52.00808	(19092021)		
488802.19	3626036.42	50.96654	(21080202)	488822.19
3626036.42	51.33063	(19042003)		
488842.19	3626036.42	51.79062	(19042003)	489042.19
3626036.42	39.84608	(21090222)		
489062.19	3626036.42	39.58740	(21020920)	489082.19
3626036.42	38.75306	(21073002)		
489102.19	3626036.42	38.25519	(21073002)	489122.19
3626036.42	37.10903	(20062624)		
489142.19	3626036.42	36.00332	(20102322)	488782.19
3626056.42	52.77210	(21080202)		
488802.19	3626056.42	53.10570	(19042003)	488822.19
3626056.42	53.50679	(19042003)		
488842.19	3626056.42	51.89928	(19042003)	489042.19
3626056.42	40.64488	(21020920)		
489062.19	3626056.42	39.96622	(21073002)	489082.19
3626056.42	39.14024	(21073002)		
489102.19	3626056.42	37.74365	(20102322)	489122.19
3626056.42	36.83216	(19050724)		
489142.19	3626056.42	37.43772	(19042005)	489162.19
3626056.42	37.54655	(19042005)		

488782.19	3626076.42	54.98246	(19042003)	488802.19
3626076.42	55.31958	(19042003)		
488822.19	3626076.42	53.52972	(19042003)	488842.19
3626076.42	50.19685	(20041924)		
488862.19	3626076.42	48.60773	(20082723)	489062.19
3626076.42	39.92175	(21073002)		
489082.19	3626076.42	38.70891	(20102322)	489102.19
3626076.42	38.47090	(19042005)		
489122.19	3626076.42	38.86004	(19042005)	489142.19
3626076.42	38.61491	(19042005)		
489162.19	3626076.42	37.75392	(19042005)	488782.19
3626096.42	57.23143	(19042003)		
488802.19	3626096.42	55.24610	(19042003)	488822.19
3626096.42	51.74235	(20041924)		
488842.19	3626096.42	50.29888	(20080822)	488862.19
3626096.42	49.17083	(21070304)		
489062.19	3626096.42	39.55855	(20102322)	489082.19
3626096.42	40.11609	(19042005)		
489102.19	3626096.42	40.14131	(19042005)	489122.19
3626096.42	39.50639	(19042005)		
489142.19	3626096.42	38.24844	(19042005)	489162.19
3626096.42	36.86668	(20120918)		
488782.19	3626116.42	57.05371	(19042003)	488802.19
3626116.42	53.35676	(20041924)		
488822.19	3626116.42	52.18698	(20080822)	488842.19
3626116.42	50.86394	(21070304)		
488862.19	3626116.42	49.84085	(21070304)	489062.19
3626116.42	41.63774	(19042005)		
489082.19	3626116.42	41.25476	(19042005)	489102.19
3626116.42	40.19281	(19042005)		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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 PM_10 IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
3626116.42	489122.19	3626116.42	38.57339	(20120918)	489142.19
3626116.42	489162.19	3626116.42	36.87829	(20031420)	489182.19
3626116.42	488782.19	3626136.42	55.14315	(20082723)	488802.19
3626136.42	488822.19	3626136.42	52.59644	(21070304)	488842.19
3626136.42	488862.19	3626136.42	49.96460	(20101020)	489082.19
3626136.42	489102.19	3626136.42	39.32717	(20120918)	489122.19
3626136.42	489142.19	3626136.42	37.48903	(20031420)	489162.19
3626136.42	489182.19	3626136.42	35.67847	(20090222)	488782.19
3626156.42	488802.19	3626156.42	54.35999	(21070304)	488822.19
3626156.42	488842.19	3626156.42	51.33986	(20101020)	488862.19
3626156.42	488882.19	3626156.42	49.63741	(21090222)	489102.19
3626156.42	489122.19	3626156.42	37.89418	(19083123)	489142.19
3626156.42	489162.19	3626156.42	36.70656	(20090222)	489182.19
3626156.42	488782.19	3626176.42	56.23287	(19101020)	488802.19
3626176.42	488822.19	3626176.42	52.82664	(20011318)	488842.19
3626176.42	488862.19	3626176.42	51.51752	(21090222)	488882.19
3626176.42	489122.19	3626176.42	38.33840	(20090222)	489142.19
3626176.42	489162.19	3626176.42	36.30292	(21083022)	489182.19
3626176.42	488782.19	3626196.42	56.67202	(21090402)	488802.19
3626196.42	488822.19	3626196.42	53.72747	(21090222)	488842.19
3626196.42	488862.19	3626196.42	52.05418	(20080522)	488882.19

3626196.42	50.79010	(20080522)			
488902.19	3626196.42		48.96885	(20102322)	489142.19
3626196.42	37.52749	(19042004)			
489162.19	3626196.42		37.59273	(19042004)	489182.19
3626196.42	37.32323	(19042004)			
489202.19	3626196.42		36.73376	(19042004)	488782.19
3626216.42	56.79382	(21090624)			
488802.19	3626216.42		55.99666	(21090222)	488822.19
3626216.42	55.11535	(21090222)			
488842.19	3626216.42		53.86481	(20080522)	488862.19
3626216.42	52.05370	(20080522)			
488882.19	3626216.42		50.26308	(20102322)	488902.19
3626216.42	50.15214	(19042005)			
489142.19	3626216.42		39.03157	(19042004)	489162.19
3626216.42	38.37561	(19042004)			
489182.19	3626216.42		37.39537	(19042004)	489202.19
3626216.42	36.12755	(19042004)			
489222.19	3626216.42		34.61310	(19042004)	489242.19
3626216.42	33.86052	(21100604)			
489262.19	3626216.42		33.45648	(21100604)	488782.19
3626236.42	58.24010	(21090222)			
488802.19	3626236.42		56.81217	(20080522)	488822.19
3626236.42	55.56895	(20080522)			
488842.19	3626236.42		53.43243	(21092401)	488862.19
3626236.42	52.05217	(19042005)			
488882.19	3626236.42		52.08922	(19042005)	488902.19
3626236.42	51.10690	(19042005)			
489142.19	3626236.42		39.05366	(19042004)	489162.19
3626236.42	37.66246	(19042004)			
489182.19	3626236.42		36.00101	(19042004)	489202.19
3626236.42	35.34432	(21100604)			
489222.19	3626236.42		34.84060	(21100604)	489242.19
3626236.42	34.09600	(21100604)			
489262.19	3626236.42		33.11341	(21100604)	488782.19
3626256.42	59.00072	(20080522)			
488802.19	3626256.42		57.13548	(20080522)	488822.19
3626256.42	55.02878	(21092401)			
488842.19	3626256.42		54.38028	(19042005)	488862.19
3626256.42	53.80861	(19042005)			

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

VALUES FOR SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

INCLUDING SOURCE(S): L000001 , L000002

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, 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      , . . .

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*** 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)		
488882.19	3626256.42	52.16144	(19042005)	488902.19
3626256.42	50.19698	(20120918)		
488922.19	3626256.42	49.01765	(19080723)	489142.19
3626256.42	37.48744	(19042004)		
489162.19	3626256.42	36.86780	(21100604)	489222.19
3626256.42	34.29322	(21100604)		
489242.19	3626256.42	34.02800	(19092701)	489262.19
3626256.42	33.70341	(19092701)		
488882.19	3626276.42	51.64523	(19080723)	488902.19
3626276.42	50.09046	(19080723)		
488922.19	3626276.42	48.67701	(19083123)	489142.19
3626276.42	37.80461	(21100604)		
489162.19	3626276.42	36.66172	(21100604)	489242.19
3626276.42	34.47790	(19092701)		
489262.19	3626276.42	33.86972	(19060822)	488882.19
3626296.42	51.43918	(19083123)		
488902.19	3626296.42	49.82949	(20090222)	489262.19
3626296.42	33.89457	(19060822)		
489282.19	3626296.42	33.09851	(19083024)	488902.19
3626316.42	50.35391	(19042004)		
489282.19	3626316.42	32.75773	(21081521)	489302.19
3626316.42	32.17784	(21081521)		
488902.19	3626336.42	52.51306	(19042004)	488922.19
3626336.42	51.30917	(19042004)		
489302.19	3626336.42	32.40989	(20083021)	489322.19
3626336.42	31.73402	(20083021)		
488922.19	3626356.42	49.78198	(19042004)	488942.19
3626356.42	47.94043	(21062024)		
489322.19	3626356.42	32.11593	(21070101)	488942.19
3626376.42	47.32381	(21062024)		
488962.19	3626376.42	46.61423	(20062701)	489322.19
3626376.42	32.16445	(19073123)		

489342.19	3626376.42	31.60508	(19072303)	488962.19
3626396.42	46.65005	(19060822)		
489322.19	3626396.42	32.55608	(19072303)	489342.19
3626396.42	31.91759	(19072303)		
489342.19	3626416.42	31.78816	(19043020)	489342.19
3626436.42	31.64586	(21072101)		
486721.80	3628652.61	15.91815	(19050624)	486669.50
3628628.55	15.62104	(21122522)		
486698.79	3628698.63	15.72121	(19050624)	486713.43
3628699.68	15.94296	(19050624)		
486757.36	3628723.73	15.69840	(20122824)	486803.39
3628721.64	15.31915	(20122824)		
486732.26	3628704.91	15.96806	(19050624)	486505.52
3627649.40	20.31778	(20032220)		
486498.72	3627624.46	20.04454	(21100322)	486467.73
3627650.15	19.69037	(20032220)		
486460.18	3627619.17	19.34690	(21100322)	488395.14
3627250.20	28.90167	(21071022)		
488707.71	3626756.74	56.48742	(19122419)	488748.32
3626767.81	50.55450	(19122419)		
488796.31	3626745.66	66.11578	(19122419)	488284.66
3628205.50	26.22320	(20031023)		
488310.04	3628227.57	26.58345	(20031023)	488291.28
3628261.78	25.32151	(20031023)		
488257.07	3628245.23	23.74070	(19120420)	488310.04
3628201.09	27.10907	(20031023)		
488301.21	3628169.09	27.78141	(20031023)	488343.14
3628192.26	25.12501	(20031023)		
487535.35	3626865.62	69.99559	(21120107)	487693.75
3626992.77	101.38807	(20031323)		
487795.04	3626883.94	108.96790	(20122119)	487871.55
3626830.06	134.94120	(20122119)		
487958.83	3626811.74	180.30628	(19121406)	488041.80
3626794.50	273.18003	(19120405)		
488094.61	3626765.41	388.63742	(19120716)	488046.12
3626714.76	198.85918	(21112423)		
488007.32	3626665.19	155.24529	(19040823)	487941.59
3626599.46	116.55050	(19021102)		
487911.42	3626574.68	106.00288	(19021102)	487815.52
3626540.19	79.74110	(19021102)		
487709.91	3626504.63	54.89001	(19021102)	487555.82
3626439.98	45.68451	(19021102)		
487490.09	3626487.39	61.52529	(20121705)	487428.67
3626556.36	75.35114	(20122123)		
487358.63	3626713.68	55.36575	(20012319)	487522.42
3626827.90	64.15646	(21120107)		
488235.45	3625424.52	35.41094	(20091504)	488562.08
3625540.85	40.29318	(19052822)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 L000022 , L000023 , L000024 , L000025 , L000026
 , L000027 , L000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
488747.03	3625794.41	44.95005 (21081502)	488857.40
3625879.42	42.75378 (19050206)		
489054.28	3625949.52	38.67461 (21070304)	489134.82
3625964.44	35.42313 (20012621)		
489178.07	3626085.25	36.24835 (20120918)	489203.43
3626198.60	36.68517 (19042004)		
489260.10	3626203.08	33.02757 (21071622)	489276.51
3626217.99	33.00557 (21100604)		
489267.56	3626265.72	33.65022 (19092701)	489336.17
3626346.26	31.66097 (21070101)		
489361.53	3626432.77	31.04722 (21072101)	489331.70
3626449.18	31.59370 (21072101)		
489309.32	3626361.18	32.43122 (21070101)	489258.61
3626298.53	33.97155 (19060822)		
489190.00	3626228.43	36.11634 (19042004)	489149.73
3626317.92	37.61169 (19060822)		
489130.34	3626250.81	39.04487 (19042004)	489137.80
3626216.50	39.13249 (19042004)		
489054.28	3626106.13	40.42852 (19042005)	489036.38
3626036.03	39.91597 (20071024)		
488921.53	3625997.25	44.77617 (19042003)	488846.96
3625983.83	46.93037 (21080202)		
488872.31	3626110.61	49.05511 (21070304)	488902.14

3626194.13	48.95523	(20102322)			
488931.97	3626270.20		48.05829	(19083123)	488908.77
3626298.76	49.47424	(20090222)			
488936.81	3626348.34		48.91498	(19042004)	488971.36
3626378.01	46.29017	(20062701)			
488968.11	3626409.72		46.59028	(19083024)	488903.08
3626355.25	52.24844	(19042004)			
488864.87	3626256.49		53.65030	(19042005)	488763.27
3626259.34	60.42168	(21090222)			
488787.87	3625962.95		48.74886	(19050206)	488735.67
3625906.27	49.81573	(20071101)			
488620.82	3625988.31		60.15107	(19100804)	488588.00
3625956.98	59.52352	(20052505)			
488671.53	3625861.52		49.56735	(19032622)	488629.77
3625813.79	53.09952	(19082901)			
488588.00	3625746.67		47.17622	(21082623)	488571.59
3625648.23	43.25803	(20011720)			
488516.41	3625666.13		47.13900	(19052822)	488522.37
3625581.11	43.40970	(19052822)			
488431.39	3625576.63		39.38954	(20070402)	488447.79
3625615.41	41.47903	(21091105)			
488388.13	3625616.90		45.32996	(19080704)	488398.57
3625706.40	46.41641	(20070402)			
488406.03	3625745.18		49.17625	(21091105)	488392.60
3625776.50	50.79300	(21091105)			
488350.84	3625722.81		53.66946	(19080704)	488279.24
3625769.05	53.48872	(21080305)			
488282.23	3625807.83		56.27978	(21080305)	488246.43
3625851.08	60.87666	(19032623)			
488230.02	3625946.54		67.46933	(19032623)	488188.26
3625924.17	65.87615	(20113019)			
488213.62	3625757.11		51.80237	(21090305)	488170.36
3625779.49	54.19131	(19100801)			
488170.36	3625733.25		51.27204	(19100801)	488077.88
3625697.45	46.88790	(20021423)			
487973.47	3625822.74		50.49019	(19111401)	487955.57
3625809.32	49.81957	(19111401)			
488058.49	3625678.06		45.78856	(20021423)	488057.00
3625618.40	43.21391	(20021423)			
488107.71	3625596.02		41.83797	(20021323)	488185.27
3625576.63	43.12660	(20113019)			
488228.53	3625528.90		39.60573	(21011221)	488233.01
3625482.66	37.53810	(21011221)			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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	45.71644 AT (	488094.61, 3626765.41, 19.58,
123.49,	0.00) DC		
	2ND HIGHEST VALUE IS	42.11659 AT (	488086.96, 3626764.52, 19.58,
123.49,	0.00) DC		
	3RD HIGHEST VALUE IS	36.98559 AT (	488066.96, 3626744.52, 19.63,
123.49,	0.00) DC		
	4TH HIGHEST VALUE IS	33.89666 AT (	488066.96, 3626764.52, 19.57,
123.49,	0.00) DC		
	5TH HIGHEST VALUE IS	32.86078 AT (	488046.12, 3626714.76, 19.26,
123.54,	0.00) DC		
	6TH HIGHEST VALUE IS	32.15553 AT (	488046.96, 3626724.52, 19.43,
123.54,	0.00) DC		
	7TH HIGHEST VALUE IS	29.95372 AT (	488046.96, 3626744.52, 19.58,
123.49,	0.00) DC		
	8TH HIGHEST VALUE IS	28.07331 AT (	488046.96, 3626764.52, 19.45,
123.48,	0.00) DC		
	9TH HIGHEST VALUE IS	27.58691 AT (	488026.96, 3626704.52, 19.33,
123.63,	0.00) DC		
	10TH HIGHEST VALUE IS	26.39171 AT (	488026.96, 3626724.52, 19.26,
123.49,	0.00) DC		

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

*** AERMOD - VERSION 23132 *** ** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

ALL HIGH 1ST HIGH VALUE IS 388.63742 ON 19120716: AT (488094.61, 3626765.41, 19.58, 123.49, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 23132 *** ** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

*** AERMET - VERSION 22112 *** **
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 1087 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 318 Calm Hours Identified

A Total of 769 Missing Hours Identified (2.92 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W403 275 PFLCNV: Turbulence data is being used w/o ADJ_U* option

SigA Data

```
*****  
*** AERMOD Finishes Successfully ***  
*****
```

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDFault CONC ELEV URBAN SigA Data

*** 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 81 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.
- * CCVR_Sub - Meteorological data includes CCVR 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: 81 Source(s); 1 Source Group(s); and 1266
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 81 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)

ALBEDO	REF	WS	WD	HT	REF	TA	HT						
19	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	1.34	41.		10.0	282.9	10.0							
19	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	1.70	14.		10.0	281.6	10.0							
19	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	1.21
1.00	1.21	355.		10.0	281.3	10.0							
19	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	1.34	23.		10.0	281.5	10.0							
19	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.28	9.		10.0	281.0	10.0							
19	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.24	27.		10.0	279.5	10.0							
19	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	2.82	31.		10.0	279.4	10.0							
19	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	1.21
0.50	2.32	356.		10.0	279.8	10.0							
19	01	01	1	09	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.30	2.24	40.		10.0	283.0	10.0							
19	01	01	1	10	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
0.23	3.49	65.		10.0	285.2	10.0							
19	01	01	1	11	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.21	4.51	59.		10.0	286.8	10.0							
19	01	01	1	12	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.24	52.		10.0	287.3	10.0							
19	01	01	1	13	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.60	51.		10.0	287.1	10.0							
19	01	01	1	14	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.21	6.79	54.		10.0	287.1	10.0							
19	01	01	1	15	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.24	7.06	52.		10.0	287.1	10.0							
19	01	01	1	16	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.33	5.72	55.		10.0	286.4	10.0							
19	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.61	2.64	53.		10.0	285.2	10.0							
19	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	5.50	50.		10.0	283.4	10.0							
19	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	4.38	59.		10.0	281.6	10.0							
19	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.29	62.		10.0	280.9	10.0							
19	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.34	60.		10.0	281.0	10.0							
19	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.64	72.		10.0	280.1	10.0							
19	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	3.49	58.		10.0	279.4	10.0							
19	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21

1.00 2.73 77. 10.0 279.3 10.0

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
19 01 01 01 10.0 1 41. 1.34 283.0 18.0 -99.00 0.40

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** 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	45.71644 AT (	488094.61, 3626765.41, 19.58,
123.49,	0.00) DC		
	2ND HIGHEST VALUE IS	42.11659 AT (	488086.96, 3626764.52, 19.58,
123.49,	0.00) DC		
	3RD HIGHEST VALUE IS	36.98559 AT (	488066.96, 3626744.52, 19.63,
123.49,	0.00) DC		
	4TH HIGHEST VALUE IS	33.89666 AT (	488066.96, 3626764.52, 19.57,
123.49,	0.00) DC		
	5TH HIGHEST VALUE IS	32.86078 AT (	488046.12, 3626714.76, 19.26,
123.54,	0.00) DC		
	6TH HIGHEST VALUE IS	32.15553 AT (	488046.96, 3626724.52, 19.43,
123.54,	0.00) DC		
	7TH HIGHEST VALUE IS	29.95372 AT (	488046.96, 3626744.52, 19.58,
123.49,	0.00) DC		
	8TH HIGHEST VALUE IS	28.07331 AT (	488046.96, 3626764.52, 19.45,
123.48,	0.00) DC		
	9TH HIGHEST VALUE IS	27.58691 AT (	488026.96, 3626704.52, 19.33,
123.63,	0.00) DC		
	10TH HIGHEST VALUE IS	26.39171 AT (	488026.96, 3626724.52, 19.26,
123.49,	0.00) DC		

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 23132 *** *** C:\Users\apol1\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID		NETWORK	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	OF	AVERAGE CONC TYPE GRID-ID	(YYMMDDHH)	

ALL HIGH 1ST HIGH VALUE IS 388.63742 ON 19120716: AT (488094.61,
3626765.41, 19.58, 123.49, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 23132 *** *** C:\Users\apol1\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 11:15:09

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN SigA Data

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)

A Total of 1087 Informational Message(s)
A Total of 26304 Hours Were Processed
A Total of 318 Calm Hours Identified
A Total of 769 Missing Hours Identified (2.92 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W403 275 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

Pre-Cast Construction Method - Unmitigated - HARP2

HARP2 - HRACalc (dated 22118) 12/21/2023 11:44:22 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 0.92

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.92
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: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****
Worker adjustment factors enabled: NO

****Fraction at time at home****
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

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\Fenton Parkway\FENTON CON HRA\hra\Unmit_Con_CancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Unmit_Con_CancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Unmit_Con_NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Unmit_Con_NCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Unmit_Con_NCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Unmit_Con_NCAcuteRiskSumByRec.csv

HRA ran successfully

Pre-Cast Construction Method - Mitigated - HARP2

HARP2 - HRACalc (dated 22118) 12/21/2023 12:09:35 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: 0.92

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.92
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: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****
Worker adjustment factors enabled: NO

****Fraction at time at home****
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

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\Fenton Parkway\FENTON CON HRA\hra\Mit_Con_CancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Mit_Con_CancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Mit_Con_NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Mit_Con_NCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Mit_Con_NCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\Mit_Con_NCAcuteRiskSumByRec.csv

HRA ran successfully

Cast-in-Place Construction Method - Unmitigated - HARP2

HARP2 - HRACalc (dated 22118) 1/31/2024 6:55:04 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: 1.16

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.16
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

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\Fenton Parkway\FENTON CON HRA\hra\CIP_Unmit_ConCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Unmit_ConCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Unmit_ConNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON

HRA\hra\CIP_Unmit_ConNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Unmit_ConNCACuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Unmit_ConNCACuteRiskSumByRec.csv

HRA ran successfully

Cast-in-Place Construction Method - Mitigated - HARP2

HARP2 - HRACalc (dated 22118) 1/31/2024 7:07:43 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: 1.16

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.16
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****
Worker adjustment factors enabled: NO

****Fraction at time at home****
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

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\Fenton Parkway\FENTON CON HRA\hra\CIP_Mit_ConCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Mit_ConCancerRiskSumByRec.csv

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Mit_ConNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Mit_ConNCChronicRiskSumByRec.csv

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Mit_ConNCAcuteRisk.csv

Acute risk total by receptor saved to: C:\Users\enuno\OneDrive -

Dudek\Desktop\Fenton Parkway\FENTON CON HRA\hra\CIP_Mit_ConNCAcuteRiskSumByRec.csv

HRA ran successfully

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/21/2023
** File: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\Fenton Parkway
Bridge Project EIR\Fenton Parkway Bridge Project EIR.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\apoll\Desktop\HARP2\HARP\Fenton Parkway Bridge Project EIR\
  MODELOPT CONC
  AVERTIME 1 PERIOD
  URBANOPT 3276208 San_Diego_County
  POLLUTID PM_10
  FLAGPOLE 0.00
  RUNORNOT RUN
  ERRORFIL "Fenton Parkway Bridge Project EIR.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 = PASS
** DESCRSRC Passenger Vehicles
** PREFIX
** Length of Side = 18.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.60
** SZINIT = 1.21
** Nodes = 4
** 488139.442, 3626755.390, 19.30, 1.30, 8.37
** 488155.323, 3626732.892, 15.16, 1.30, 8.37

```

** 488179.145, 3626691.203, 14.98, 1.30, 8.37
** 488222.819, 3626559.520, 13.73, 1.30, 8.37

** -----

LOCATION L0000001	VOLUME	488144.632	3626748.037	17.01
LOCATION L0000002	VOLUME	488155.012	3626733.332	15.06
LOCATION L0000003	VOLUME	488163.986	3626717.731	14.97
LOCATION L0000004	VOLUME	488172.917	3626702.103	15.03
LOCATION L0000005	VOLUME	488180.860	3626686.034	14.79
LOCATION L0000006	VOLUME	488186.526	3626668.949	13.88
LOCATION L0000007	VOLUME	488192.192	3626651.864	12.85
LOCATION L0000008	VOLUME	488197.859	3626634.779	12.22
LOCATION L0000009	VOLUME	488203.525	3626617.694	11.62
LOCATION L0000010	VOLUME	488209.191	3626600.609	11.94
LOCATION L0000011	VOLUME	488214.858	3626583.525	12.57
LOCATION L0000012	VOLUME	488220.524	3626566.440	15.71

** End of LINE VOLUME Source ID = PASS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = TRUCK

** DESCRSRC Trucks

** PREFIX

** Length of Side = 18.00

** Configuration = Adjacent

** Emission Rate = 1.0

** Vertical Dimension = 6.80

** SZINIT = 3.16

** Nodes = 4

** 488139.442, 3626755.390, 19.30, 3.40, 8.37
** 488155.323, 3626732.892, 15.16, 3.40, 8.37
** 488179.145, 3626691.203, 14.98, 3.40, 8.37
** 488222.819, 3626559.520, 13.73, 3.40, 8.37

** -----

LOCATION L0000013	VOLUME	488144.632	3626748.037	17.01
LOCATION L0000014	VOLUME	488155.012	3626733.332	15.06
LOCATION L0000015	VOLUME	488163.986	3626717.731	14.97
LOCATION L0000016	VOLUME	488172.917	3626702.103	15.03
LOCATION L0000017	VOLUME	488180.860	3626686.034	14.79
LOCATION L0000018	VOLUME	488186.526	3626668.949	13.88
LOCATION L0000019	VOLUME	488192.192	3626651.864	12.85
LOCATION L0000020	VOLUME	488197.859	3626634.779	12.22
LOCATION L0000021	VOLUME	488203.525	3626617.694	11.62
LOCATION L0000022	VOLUME	488209.191	3626600.609	11.94
LOCATION L0000023	VOLUME	488214.858	3626583.525	12.57
LOCATION L0000024	VOLUME	488220.524	3626566.440	15.71

** End of LINE VOLUME Source ID = TRUCK

** Source Parameters **

** LINE VOLUME Source ID = PASS

SRCPARAM L0000001	0.08333333333	1.30	8.37	1.21
SRCPARAM L0000002	0.08333333333	1.30	8.37	1.21
SRCPARAM L0000003	0.08333333333	1.30	8.37	1.21

SRCPARAM L0000004	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000005	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000006	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000007	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000008	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000009	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000010	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000011	0.0833333333	1.30	8.37	1.21
SRCPARAM L0000012	0.0833333333	1.30	8.37	1.21

** -----

** LINE VOLUME Source ID = TRUCK

SRCPARAM L0000013	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000014	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000015	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000016	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000017	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000018	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000019	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000020	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000021	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000022	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000023	0.0833333333	3.40	8.37	3.16
SRCPARAM L0000024	0.0833333333	3.40	8.37	3.16

** -----

URBANSRC ALL

SRCGROUP PASS L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
 SRCGROUP PASS L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
 SRCGROUP TRUCK L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
 SRCGROUP TRUCK L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
 SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "Fenton Parkway Bridge Project EIR.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "..\Fenton Parkway Construction2\SDAPCD Kearny
 MetData\KVR_2019-2021_v22112.SFC"

PROFFILE "..\Fenton Parkway Construction2\SDAPCD Kearny

MetData\KVR_2019-2021_v22112.PFL"

SURFDATA 93107 2019

UAIRDATA 3190 2019

SITEDATA 72293 2019

PROFBASE 132.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "Fenton Parkway Bridge Project EIR.AD\01H1GALL.PLT" 31

PLOTFILE 1 PASS 1ST "Fenton Parkway Bridge Project EIR.AD\01H1G001.PLT" 32

PLOTFILE 1 TRUCK 1ST "Fenton Parkway Bridge Project EIR.AD\01H1G002.PLT" 33

PLOTFILE PERIOD ALL "Fenton Parkway Bridge Project EIR.AD\PE00GALL.PLT" 34

PLOTFILE PERIOD PASS "Fenton Parkway Bridge Project EIR.AD\PE00G001.PLT" 35

PLOTFILE PERIOD TRUCK "Fenton Parkway Bridge Project EIR.AD\PE00G002.PLT" 36

SUMMFILE "Fenton Parkway Bridge Project EIR.sum"

OU FINISHED

*** Message Summary For AERMOD Model Setup ***

----- Summary of Total Messages -----

A Total of	0	Fatal Error Message(s)
A Total of	1	Warning Message(s)
A Total of	0	Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

MX W403 153 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

*** AERMET - VERSION 22112 *** ***

*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Allows User-Specified 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 24 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.
- * CCVR_Sub - Meteorological data includes CCVR 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: 24 Source(s); 3 Source Group(s); and 1248
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 24 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) = 132.00 ; 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 = 3.8 MB of RAM.**

****Input Runstream File: aermod.inp**

****Output Print File: aermod.out**

****Detailed Error/Message File: Fenton Parkway Bridge Project EIR.err**

****File for Summary of Results: Fenton Parkway Bridge Project EIR.sum**

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SOURCE	EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)
ID	CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	BY						

L0000001	0	0.83333E-01	488144.6	3626748.0	17.0	1.30	8.37
1.21 YES		NO					
L0000 002	0	0.83333E-01	488155.0	3626733.3	15.1	1.30	8.37
1.21 YES		NO					
L0000 003	0	0.83333E-01	488164.0	3626717.7	15.0	1.30	8.37
1.21 YES		NO					
L0000 004	0	0.83333E-01	488172.9	3626702.1	15.0	1.30	8.37
1.21 YES		NO					
L0000 005	0	0.83333E-01	488180.9	3626686.0	14.8	1.30	8.37
1.21 YES		NO					
L0000 006	0	0.83333E-01	488186.5	3626668.9	13.9	1.30	8.37
1.21 YES		NO					
L0000 007	0	0.83333E-01	488192.2	3626651.9	12.9	1.30	8.37
1.21 YES		NO					
L0000 008	0	0.83333E-01	488197.9	3626634.8	12.2	1.30	8.37
1.21 YES		NO					
L0000 009	0	0.83333E-01	488203.5	3626617.7	11.6	1.30	8.37
1.21 YES		NO					
L0000 010	0	0.83333E-01	488209.2	3626600.6	11.9	1.30	8.37
1.21 YES		NO					
L0000 011	0	0.83333E-01	488214.9	3626583.5	12.6	1.30	8.37
1.21 YES		NO					
L0000 012	0	0.83333E-01	488220.5	3626566.4	15.7	1.30	8.37
1.21 YES		NO					
L0000 013	0	0.83333E-01	488144.6	3626748.0	17.0	3.40	8.37
3.16 YES		NO					
L0000 014	0	0.83333E-01	488155.0	3626733.3	15.1	3.40	8.37
3.16 YES		NO					
L0000 015	0	0.83333E-01	488164.0	3626717.7	15.0	3.40	8.37
3.16 YES		NO					
L0000 016	0	0.83333E-01	488172.9	3626702.1	15.0	3.40	8.37
3.16 YES		NO					
L0000 017	0	0.83333E-01	488180.9	3626686.0	14.8	3.40	8.37
3.16 YES		NO					
L0000 018	0	0.83333E-01	488186.5	3626668.9	13.9	3.40	8.37
3.16 YES		NO					
L0000 019	0	0.83333E-01	488192.2	3626651.9	12.9	3.40	8.37
3.16 YES		NO					
L0000 020	0	0.83333E-01	488197.9	3626634.8	12.2	3.40	8.37
3.16 YES		NO					
L0000 021	0	0.83333E-01	488203.5	3626617.7	11.6	3.40	8.37
3.16 YES		NO					
L0000 022	0	0.83333E-01	488209.2	3626600.6	11.9	3.40	8.37
3.16 YES		NO					
L0000 023	0	0.83333E-01	488214.9	3626583.5	12.6	3.40	8.37
3.16 YES		NO					
L0000 024	0	0.83333E-01	488220.5	3626566.4	15.7	3.40	8.37
3.16 YES		NO					

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
PASS L000006	L000001 , L000002 , L000003 , L000004 , L000005 , L000006 , L000007 , L000008 , L000009 , L000010 , L000011 , L000012 ,
TRUCK L000018	L000013 , L000014 , L000015 , L000016 , L000017 , L000018 , L000019 , L000020 , L000021 , L000022 , L000023 , L000024 ,
ALL L000006	L000001 , L000002 , L000003 , L000004 , L000005 , L000006 , L000007 , L000008 , L000009 , L000010 , L000011 , L000012 , L000013 , L000014 , L000015 , L000016 , L000017 , L000018 , L000019 , L000020 , L000021 , L000022 , L000023 , L000024 ,

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
	3276208.	L000001 , L000002 , L000003 , L000004 ,

L0000005 , L0000006 , L0000007 ,
L0000008 ,

L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 ,

L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 ,

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(487527.0, 3626464.5, 20.0, 123.4, 0.0); (487547.0,
3626464.5, 19.8, 123.4, 0.0);
(487567.0, 3626464.5, 19.5, 123.6, 0.0); (487587.0,
3626464.5, 19.2, 123.6, 0.0);
(487607.0, 3626464.5, 18.8, 123.7, 0.0); (487507.0,
3626484.5, 20.3, 123.3, 0.0);
(487527.0, 3626484.5, 20.2, 123.3, 0.0); (487547.0,
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(487607.0, 3626484.5, 18.9, 123.6, 0.0); (487627.0,
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3626504.5, 17.6, 123.7, 0.0);
(487707.0, 3626504.5, 17.1, 123.7, 0.0); (487467.0,
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3626524.5, 17.5, 123.7, 0.0);
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(487687.0, 3626564.5, 18.5, 123.6, 0.0); (487707.0,
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3626564.5, 18.7, 123.6, 0.0);
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```

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3626564.5, 19.1, 123.7, 0.0);
( 487427.0, 3626584.5, 22.7, 119.3, 0.0); ( 487447.0,
3626584.5, 22.3, 119.9, 0.0);
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Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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PAGE 6

*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
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14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** AERMOD - VERSION 23132 *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES *** (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 23132 *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton Parkway Bridge Project EIR\ *** 12/21/23 *** AERMET - VERSION 22112 *** *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\Fenton Parkway Construction2\SDAPCD Kearny MetData\KVR_2019-2021_v22112.SFC Met Version: 22112 Profile file: ..\Fenton Parkway Construction2\SDAPCD Kearny MetData\KVR_2019-2021_v22112.PFL Surface format: FREE

Profile format: FREE

Surface station no.: 93107 Upper air station no.: 3190 Name: UNKNOWN Name: UNKNOWN Year: 2019 Year: 2019

First 24 hours of scalar data table with columns: YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN

19	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.28	9.			10.0	281.0	10.0						
19	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.24	27.			10.0	279.5	10.0						
19	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	2.82	31.			10.0	279.4	10.0						
19	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	1.21
0.50	2.32	356.			10.0	279.8	10.0						
19	01	01	1	09	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.30	2.24	40.			10.0	283.0	10.0						
19	01	01	1	10	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
0.23	3.49	65.			10.0	285.2	10.0						
19	01	01	1	11	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.21	4.51	59.			10.0	286.8	10.0						
19	01	01	1	12	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.24	52.			10.0	287.3	10.0						
19	01	01	1	13	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.60	51.			10.0	287.1	10.0						
19	01	01	1	14	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.21	6.79	54.			10.0	287.1	10.0						
19	01	01	1	15	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.24	7.06	52.			10.0	287.1	10.0						
19	01	01	1	16	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.33	5.72	55.			10.0	286.4	10.0						
19	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.61	2.64	53.			10.0	285.2	10.0						
19	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	5.50	50.			10.0	283.4	10.0						
19	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	4.38	59.			10.0	281.6	10.0						
19	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.29	62.			10.0	280.9	10.0						
19	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.34	60.			10.0	281.0	10.0						
19	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.64	72.			10.0	280.1	10.0						
19	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	3.49	58.			10.0	279.4	10.0						
19	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.73	77.			10.0	279.3	10.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
19	01	01	01	10.0	1	41.	1.34	283.0	18.0	-99.00	0.40

F indicates top of profile (=1) or below (=0)

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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		
487526.96	3626464.52	3.51534	487546.96
3626464.52	3.69823		
487566.96	3626464.52	3.89969	487586.96
3626464.52	4.13498		
487606.96	3626464.52	4.37318	487506.96
3626484.52	3.29238		
487526.96	3626484.52	3.47576	487546.96
3626484.52	3.62084		
487566.96	3626484.52	3.82566	487586.96
3626484.52	4.05755		
487606.96	3626484.52	4.28962	487626.96
3626484.52	4.56345		
487646.96	3626484.52	4.87107	487486.96
3626504.52	3.05238		
487506.96	3626504.52	3.22851	487526.96
3626504.52	3.41000		
487546.96	3626504.52	3.54096	487566.96
3626504.52	3.74222		
487586.96	3626504.52	3.97098	487606.96
3626504.52	4.20599		
487626.96	3626504.52	4.48085	487646.96
3626504.52	4.78974		
487666.96	3626504.52	5.13084	487686.96
3626504.52	5.49412		
487706.96	3626504.52	5.90021	487466.96
3626524.52	2.83576		
487486.96	3626524.52	2.98845	487506.96
3626524.52	3.15879		

487526.96	3626524.52	3.33973	487546.96
3626524.52	3.46769		
487566.96	3626524.52	3.66508	487586.96
3626524.52	3.88986		
487606.96	3626524.52	4.13515	487626.96
3626524.52	4.39971		
487646.96	3626524.52	4.70422	487666.96
3626524.52	5.04010		
487686.96	3626524.52	5.40646	487706.96
3626524.52	5.82964		
487726.96	3626524.52	6.29831	487746.96
3626524.52	6.83906		
487766.96	3626524.52	7.43982	487446.96
3626544.52	2.66390		
487466.96	3626544.52	2.79117	487486.96
3626544.52	2.93639		
487506.96	3626544.52	3.09133	487526.96
3626544.52	3.24646		
487546.96	3626544.52	3.43202	487566.96
3626544.52	3.59978		
487586.96	3626544.52	3.82100	487606.96
3626544.52	4.07453		
487626.96	3626544.52	4.33323	487646.96
3626544.52	4.62237		
487666.96	3626544.52	4.95180	487686.96
3626544.52	5.31756		
487706.96	3626544.52	5.73542	487726.96
3626544.52	6.20254		
487746.96	3626544.52	6.72823	487766.96
3626544.52	7.32267		
487786.96	3626544.52	8.00014	487806.96
3626544.52	8.79614		
487826.96	3626544.52	9.62661	487426.96
3626564.52	2.50452		
487446.96	3626564.52	2.61677	487466.96
3626564.52	2.74375		
487486.96	3626564.52	2.88045	487506.96
3626564.52	3.02787		
487526.96	3626564.52	3.19155	487546.96
3626564.52	3.35067		
487566.96	3626564.52	3.53877	487586.96
3626564.52	3.75400		
487606.96	3626564.52	4.03136	487626.96
3626564.52	4.25220		
487646.96	3626564.52	4.54178	487666.96
3626564.52	4.86348		
487686.96	3626564.52	5.22528	487706.96
3626564.52	5.63023		
487726.96	3626564.52	6.08391	487746.96
3626564.52	6.59927		

487766.96 3626564.52 7.18406 487786.96
 3626564.52 7.86705
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
487806.96	3626564.52	8.63413	487826.96
3626564.52	9.50800		
487846.96	3626564.52	10.51240	487866.96
3626564.52	11.67640		
487426.96	3626584.52	2.46139	487446.96
3626584.52	2.57358		
487466.96	3626584.52	2.69826	487486.96
3626584.52	2.82516		
487506.96	3626584.52	2.96983	487526.96
3626584.52	3.13408		
487546.96	3626584.52	3.29620	487566.96
3626584.52	3.48901		
487586.96	3626584.52	3.69581	487606.96
3626584.52	3.94261		
487626.96	3626584.52	4.18117	487646.96
3626584.52	4.46316		
487666.96	3626584.52	4.77488	487686.96
3626584.52	5.12461		
487706.96	3626584.52	5.52457	487726.96
3626584.52	5.96270		
487746.96	3626584.52	6.46604	487766.96
3626584.52	7.04062		
487786.96	3626584.52	7.69170	487806.96

3626584.52	8.44299			
487826.96	3626584.52	9.31106	487846.96	
3626584.52	10.31606			
487866.96	3626584.52	11.48425	487886.96	
3626584.52	12.84974			
487906.96	3626584.52	14.44978	487426.96	
3626604.52	2.41166			
487446.96	3626604.52	2.52529	487466.96	
3626604.52	2.64728			
487486.96	3626604.52	2.77486	487506.96	
3626604.52	2.91704			
487526.96	3626604.52	3.07357	487546.96	
3626604.52	3.24985			
487566.96	3626604.52	3.44728	487586.96	
3626604.52	3.65990			
487606.96	3626604.52	3.87522	487626.96	
3626604.52	4.11844			
487646.96	3626604.52	4.38872	487666.96	
3626604.52	4.69038			
487686.96	3626604.52	5.02960	487706.96	
3626604.52	5.41523			
487726.96	3626604.52	5.83992	487746.96	
3626604.52	6.32360			
487766.96	3626604.52	6.87863	487786.96	
3626604.52	7.51977			
487806.96	3626604.52	8.23302	487826.96	
3626604.52	9.08831			
487846.96	3626604.52	10.06821	487866.96	
3626604.52	11.22914			
487886.96	3626604.52	12.60515	487906.96	
3626604.52	14.24352			
487926.96	3626604.52	16.19029	487406.96	
3626624.52	2.26389			
487426.96	3626624.52	2.36580	487446.96	
3626624.52	2.47675			
487466.96	3626624.52	2.59550	487486.96	
3626624.52	2.72446			
487506.96	3626624.52	2.86437	487526.96	
3626624.52	3.01800			
487546.96	3626624.52	3.20427	487566.96	
3626624.52	3.41480			
487586.96	3626624.52	3.63247	487606.96	
3626624.52	3.84942			
487626.96	3626624.52	4.07174	487646.96	
3626624.52	4.32658			
487666.96	3626624.52	4.61626	487686.96	
3626624.52	4.94427			
487706.96	3626624.52	5.31207	487726.96	
3626624.52	5.72453			
487746.96	3626624.52	6.19256	487766.96	

3626624.52	6.72596			
	487786.96	3626624.52	7.33537	487806.96
3626624.52	8.07736			
	487826.96	3626624.52	8.91696	487846.96
3626624.52	9.89460			
	487866.96	3626624.52	10.95007	487886.96
3626624.52	12.30950			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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		
487906.96	3626624.52	13.96369	487926.96
3626624.52	15.93723		
487946.96	3626624.52	18.29929	487406.96
3626644.52	2.21948		
487426.96	3626644.52	2.31966	487446.96
3626644.52	2.42766		
487466.96	3626644.52	2.54581	487486.96
3626644.52	2.67256		
487506.96	3626644.52	2.80950	487526.96
3626644.52	2.96311		
487546.96	3626644.52	3.17203	487566.96
3626644.52	3.39698		
487586.96	3626644.52	3.60927	487606.96
3626644.52	3.81949		
487626.96	3626644.52	4.05216	487646.96
3626644.52	4.28217		
487666.96	3626644.52	4.55453	487686.96
3626644.52	4.86957		

487706.96	3626644.52	5.20934	487726.96
3626644.52	5.60913		
487746.96	3626644.52	6.08050	487766.96
3626644.52	6.59366		
487786.96	3626644.52	7.14863	487806.96
3626644.52	7.83322		
487826.96	3626644.52	8.60051	487846.96
3626644.52	9.56626		
487866.96	3626644.52	10.66914	487886.96
3626644.52	11.97078		
487906.96	3626644.52	13.63287	487926.96
3626644.52	15.60857		
487946.96	3626644.52	17.96937	487966.96
3626644.52	21.01697		
487386.96	3626664.52	2.08365	487406.96
3626664.52	2.17526		
487426.96	3626664.52	2.27360	487446.96
3626664.52	2.37897		
487466.96	3626664.52	2.49498	487486.96
3626664.52	2.61994		
487506.96	3626664.52	2.75929	487526.96
3626664.52	2.93017		
487546.96	3626664.52	3.11047	487566.96
3626664.52	3.29644		
487586.96	3626664.52	3.52398	487606.96
3626664.52	3.75042		
487626.96	3626664.52	4.00569	487646.96
3626664.52	4.23877		
487666.96	3626664.52	4.50075	487686.96
3626664.52	4.78500		
487706.96	3626664.52	5.10521	487726.96
3626664.52	5.52019		
487746.96	3626664.52	5.92152	487766.96
3626664.52	6.36891		
487786.96	3626664.52	6.92065	487806.96
3626664.52	7.57591		
487826.96	3626664.52	8.32533	487846.96
3626664.52	9.22063		
487866.96	3626664.52	10.32677	487886.96
3626664.52	11.57205		
487906.96	3626664.52	13.12097	487926.96
3626664.52	15.06154		
487946.96	3626664.52	17.57032	487966.96
3626664.52	20.59822		
487986.96	3626664.52	24.42150	487386.96
3626684.52	2.03970		
487406.96	3626684.52	2.12884	487426.96
3626684.52	2.22550		
487446.96	3626684.52	2.33078	487466.96
3626684.52	2.44392		

487486.96	3626684.52	2.56861	487506.96
3626684.52	2.71172		
487526.96	3626684.52	2.88885	487546.96
3626684.52	3.04417		
487566.96	3626684.52	3.21294	487586.96
3626684.52	3.40768		
487606.96	3626684.52	3.64725	487626.96
3626684.52	3.92968		
487646.96	3626684.52	4.18520	487666.96
3626684.52	4.44837		
487686.96	3626684.52	4.69859	487706.96
3626684.52	5.01589		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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		
487726.96	3626684.52	5.38727	487746.96
3626684.52	5.74539		
487766.96	3626684.52	6.16981	487786.96
3626684.52	6.72539		
487806.96	3626684.52	7.36410	487826.96
3626684.52	8.08521		
487846.96	3626684.52	8.92354	487866.96
3626684.52	9.91743		
487886.96	3626684.52	11.07624	487906.96
3626684.52	12.54409		
487926.96	3626684.52	14.48645	487946.96
3626684.52	17.00364		
487966.96	3626684.52	19.96476	487986.96

3626684.52	23.77797			
488006.96	3626684.52	28.58400		487366.96
3626704.52	1.91367			
487386.96	3626704.52	1.99339		487406.96
3626704.52	2.07789			
487426.96	3626704.52	2.17120		487446.96
3626704.52	2.28286			
487466.96	3626704.52	2.39451		487486.96
3626704.52	2.52158			
487506.96	3626704.52	2.66452		487526.96
3626704.52	2.82077			
487546.96	3626704.52	2.99044		487566.96
3626704.52	3.15922			
487586.96	3626704.52	3.33451		487606.96
3626704.52	3.52941			
487626.96	3626704.52	3.78996		487646.96
3626704.52	4.10196			
487666.96	3626704.52	4.39334		487686.96
3626704.52	4.63956			
487706.96	3626704.52	4.93775		487726.96
3626704.52	5.21899			
487746.96	3626704.52	5.57131		487766.96
3626704.52	6.00667			
487786.96	3626704.52	6.55153		487806.96
3626704.52	7.18878			
487826.96	3626704.52	7.87966		487846.96
3626704.52	8.65681			
487866.96	3626704.52	9.56323		487886.96
3626704.52	10.67993			
487906.96	3626704.52	12.15906		487926.96
3626704.52	13.96577			
487946.96	3626704.52	16.15696		487966.96
3626704.52	19.29706			
487986.96	3626704.52	22.86446		488006.96
3626704.52	27.52791			
488026.96	3626704.52	33.99934		487386.96
3626724.52	1.94683			
487406.96	3626724.52	2.03411		487426.96
3626724.52	2.12970			
487446.96	3626724.52	2.23247		487466.96
3626724.52	2.34112			
487486.96	3626724.52	2.46028		487506.96
3626724.52	2.59399			
487526.96	3626724.52	2.74911		487546.96
3626724.52	2.90756			
487566.96	3626724.52	3.08064		487586.96
3626724.52	3.27295			
487606.96	3626724.52	3.50440		487626.96
3626724.52	3.71801			
487646.96	3626724.52	3.98898		487666.96

487506.96	3626744.52	2.53436	487526.96
3626744.52	2.68815		
487546.96	3626744.52	2.83179	487566.96
3626744.52	2.99608		
487586.96	3626744.52	3.20790	487606.96
3626744.52	3.45446		
487626.96	3626744.52	3.65292	487646.96
3626744.52	3.88836		
487666.96	3626744.52	4.14784	487686.96
3626744.52	4.43188		
487706.96	3626744.52	4.74151	487726.96
3626744.52	5.00175		
487746.96	3626744.52	5.34013	487766.96
3626744.52	5.75110		
487786.96	3626744.52	6.18822	487806.96
3626744.52	6.68262		
487826.96	3626744.52	7.42444	487846.96
3626744.52	8.26869		
487866.96	3626744.52	9.14407	487886.96
3626744.52	10.14624		
487906.96	3626744.52	11.57943	487926.96
3626744.52	13.33546		
487946.96	3626744.52	15.49446	487966.96
3626744.52	17.93917		
487986.96	3626744.52	21.09453	488006.96
3626744.52	25.21266		
488026.96	3626744.52	30.77682	488046.96
3626744.52	38.64284		
488066.96	3626744.52	50.79627	487446.96
3626764.52	2.13297		
487466.96	3626764.52	2.23174	487486.96
3626764.52	2.35546		
487506.96	3626764.52	2.49668	487526.96
3626764.52	2.63582		
487546.96	3626764.52	2.76559	487566.96
3626764.52	2.93058		
487586.96	3626764.52	3.12373	487606.96
3626764.52	3.34552		
487626.96	3626764.52	3.57533	487646.96
3626764.52	3.79544		
487666.96	3626764.52	4.03547	487686.96
3626764.52	4.31224		
487706.96	3626764.52	4.64548	487726.96
3626764.52	4.95333		
487746.96	3626764.52	5.27853	487766.96
3626764.52	5.63516		
487786.96	3626764.52	6.01070	487806.96
3626764.52	6.53716		
487826.96	3626764.52	7.14128	487846.96
3626764.52	7.94202		

487866.96	3626764.52	8.94553	487886.96
3626764.52	9.96651		
487906.96	3626764.52	11.28508	487926.96
3626764.52	12.85666		
487946.96	3626764.52	14.89200	487966.96
3626764.52	16.95080		
487986.96	3626764.52	19.57451	488006.96
3626764.52	23.18556		
488026.96	3626764.52	28.56769	488046.96
3626764.52	35.81141		
488066.96	3626764.52	45.95855	488086.96
3626764.52	62.54838		
487466.96	3626784.52	2.20160	487486.96
3626784.52	2.32473		
487506.96	3626784.52	2.44683	487526.96
3626784.52	2.56548		
487546.96	3626784.52	2.71011	487566.96
3626784.52	2.87154		
487586.96	3626784.52	3.04731	487606.96
3626784.52	3.23413		
487626.96	3626784.52	3.43110	487646.96
3626784.52	3.66345		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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		
487666.96	3626784.52	3.92932	487686.96
3626784.52	4.19347		
487706.96	3626784.52	4.47610	487726.96

3626784.52	4.82866			
487746.96	3626784.52	5.18110	487766.96	
3626784.52	5.53682			
487786.96	3626784.52	5.88510	487806.96	
3626784.52	6.39886			
487826.96	3626784.52	6.98384	487846.96	
3626784.52	7.67805			
487866.96	3626784.52	8.57047	487886.96	
3626784.52	9.64884			
487906.96	3626784.52	10.86379	487926.96	
3626784.52	12.29164			
487946.96	3626784.52	13.96030	487966.96	
3626784.52	15.99652			
487986.96	3626784.52	18.49449	488006.96	
3626784.52	21.72863			
488026.96	3626784.52	26.00818	488046.96	
3626784.52	32.20248			
487506.96	3626804.52	2.40074	487526.96	
3626804.52	2.50697			
487546.96	3626804.52	2.65636	487566.96	
3626804.52	2.81062			
487586.96	3626804.52	2.97565	487606.96	
3626804.52	3.15402			
487626.96	3626804.52	3.32254	487646.96	
3626804.52	3.55875			
487666.96	3626804.52	3.81393	487686.96	
3626804.52	4.06673			
487706.96	3626804.52	4.31238	487726.96	
3626804.52	4.66384			
487746.96	3626804.52	5.04480	487766.96	
3626804.52	5.38474			
487786.96	3626804.52	5.77517	487806.96	
3626804.52	6.26238			
487826.96	3626804.52	6.83153	487846.96	
3626804.52	7.46546			
487866.96	3626804.52	8.18183	487886.96	
3626804.52	9.26736			
487906.96	3626804.52	10.42788	487926.96	
3626804.52	11.73028			
487946.96	3626804.52	13.22569	487966.96	
3626804.52	15.06179			
487986.96	3626804.52	17.35487	487526.96	
3626824.52	2.47717			
487546.96	3626824.52	2.59990	487566.96	
3626824.52	2.74242			
487586.96	3626824.52	2.91175	487606.96	
3626824.52	3.10920			
487626.96	3626824.52	3.27670	487646.96	
3626824.52	3.49501			
487666.96	3626824.52	3.73393	487686.96	

3626824.52	3.98109			
487706.96	3626824.52	4.24665		487726.96
3626824.52	4.50045			
487746.96	3626824.52	4.80886		487766.96
3626824.52	5.19456			
487786.96	3626824.52	5.67691		487806.96
3626824.52	6.12678			
487826.96	3626824.52	6.65340		487846.96
3626824.52	7.25525			
487866.96	3626824.52	7.93594		487886.96
3626824.52	8.75717			
487546.96	3626844.52	2.55664		487566.96
3626844.52	2.70263			
487586.96	3626844.52	2.86534		487606.96
3626844.52	3.04861			
487626.96	3626844.52	3.22233		487646.96
3626844.52	3.43182			
487666.96	3626844.52	3.64939		487686.96
3626844.52	3.87486			
487706.96	3626844.52	4.14610		487726.96
3626844.52	4.40415			
487746.96	3626844.52	4.71752		487766.96
3626844.52	5.09162			
487786.96	3626844.52	5.51777		487806.96
3626844.52	5.96640			
487826.96	3626844.52	6.47619		487846.96
3626844.52	7.05440			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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		

487546.96	3626864.52	2.51101	487566.96
3626864.52	2.66391		
487586.96	3626864.52	2.82138	487606.96
3626864.52	2.98635		
487626.96	3626864.52	3.15688	487646.96
3626864.52	3.36162		
487666.96	3626864.52	3.56777	487686.96
3626864.52	3.77853		
487706.96	3626864.52	4.04882	487726.96
3626864.52	4.32353		
487746.96	3626864.52	4.64313	487766.96
3626864.52	4.99557		
487786.96	3626864.52	5.34975	487806.96
3626864.52	5.79877		
487566.96	3626884.52	2.60330	487586.96
3626884.52	2.77013		
487606.96	3626884.52	2.92817	487626.96
3626884.52	3.06586		
487646.96	3626884.52	3.27468	487666.96
3626884.52	3.49528		
487686.96	3626884.52	3.71587	487706.96
3626884.52	3.98519		
487726.96	3626884.52	4.24271	487746.96
3626884.52	4.53283		
487766.96	3626884.52	4.85270	487786.96
3626884.52	5.19177		
487586.96	3626904.52	2.71667	487606.96
3626904.52	2.87889		
487626.96	3626904.52	3.01295	487646.96
3626904.52	3.19748		
487666.96	3626904.52	3.39982	487686.96
3626904.52	3.61706		
487706.96	3626904.52	3.87852	487726.96
3626904.52	4.13102		
487746.96	3626904.52	4.41454	487766.96
3626904.52	4.72736		
487626.96	3626924.52	2.97119	487646.96
3626924.52	3.12934		
487666.96	3626924.52	3.30926	487686.96
3626924.52	3.51714		
487706.96	3626924.52	3.76263	487726.96
3626924.52	4.01034		
487746.96	3626924.52	4.29364	487646.96
3626944.52	3.08057		
487666.96	3626944.52	3.26344	487686.96
3626944.52	3.45957		
487706.96	3626944.52	3.66170	487726.96
3626944.52	3.89477		

487666.96	3626964.52	3.20304	487686.96
3626964.52	3.38943		
487706.96	3626964.52	3.57933	487686.96
3626984.52	3.31276		
488242.19	3625436.42	0.54866	488262.19
3625436.42	0.54096		
488242.19	3625456.42	0.56325	488262.19
3625456.42	0.55524		
488282.19	3625456.42	0.54758	488302.19
3625456.42	0.54116		
488322.19	3625456.42	0.53705	488242.19
3625476.42	0.57849		
488262.19	3625476.42	0.57013	488282.19
3625476.42	0.56226		
488302.19	3625476.42	0.55575	488322.19
3625476.42	0.55168		
488342.19	3625476.42	0.54987	488362.19
3625476.42	0.54960		
488242.19	3625496.42	0.59440	488262.19
3625496.42	0.58571		
488282.19	3625496.42	0.57762	488302.19
3625496.42	0.57119		
488322.19	3625496.42	0.56719	488342.19
3625496.42	0.56547		
488362.19	3625496.42	0.56522	488382.19
3625496.42	0.56545		
488402.19	3625496.42	0.56535	488422.19
3625496.42	0.56447		
488242.19	3625516.42	0.61103	488262.19
3625516.42	0.60200		
488282.19	3625516.42	0.59362	488302.19
3625516.42	0.58716		

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*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: PASS INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3625516.42	488322.19	3625516.42	0.58326	488342.19
3625516.42	488362.19	3625516.42	0.58145	488382.19
3625516.42	488402.19	3625516.42	0.58136	488422.19
3625516.42	488442.19	3625516.42	0.57832	488462.19
3625536.42	488482.19	3625516.42	0.57265	488222.19
3625536.42	488242.19	3625536.42	0.62843	488262.19
3625536.42	488282.19	3625536.42	0.61034	488302.19
3625536.42	488322.19	3625536.42	0.60002	488342.19
3625536.42	488362.19	3625536.42	0.59840	488382.19
3625536.42	488402.19	3625536.42	0.59808	488422.19
3625536.42	488442.19	3625536.42	0.59457	488462.19
3625536.42	488482.19	3625536.42	0.58863	488502.19
3625536.42	488522.19	3625536.42	0.58615	488542.19
3625556.42	488222.19	3625556.42	0.65561	488242.19
3625556.42	488262.19	3625556.42	0.63695	488282.19
3625556.42	488302.19	3625556.42	0.62151	488322.19
3625556.42	488342.19	3625556.42	0.61645	488362.19
3625556.42	488382.19	3625556.42	0.61653	488402.19
3625556.42	488422.19	3625556.42	0.61425	488442.19
3625556.42	488462.19	3625556.42	0.60852	488482.19
3625556.42	488502.19	3625556.42	0.60384	488522.19
3625556.42	488542.19	3625556.42	0.60848	488562.19

3625556.42	0.61529			
488202.19	3625576.42	0.68160		488222.19
3625576.42	0.67500			
488242.19	3625576.42	0.66583		488262.19
3625576.42	0.65573			
488282.19	3625576.42	0.64660		488302.19
3625576.42	0.64007			
488322.19	3625576.42	0.63650		488342.19
3625576.42	0.63532			
488362.19	3625576.42	0.63534		488382.19
3625576.42	0.63536			
488402.19	3625576.42	0.63442		488422.19
3625576.42	0.63242			
488442.19	3625576.42	0.62956		488462.19
3625576.42	0.62629			
488482.19	3625576.42	0.62353		488502.19
3625576.42	0.62240			
488522.19	3625576.42	0.62412		488542.19
3625576.42	0.62923			
488562.19	3625576.42	0.63703		488582.19
3625576.42	0.64562			
488122.19	3625596.42	0.70234		488142.19
3625596.42	0.70307			
488162.19	3625596.42	0.70470		488182.19
3625596.42	0.70501			
488202.19	3625596.42	0.70214		488222.19
3625596.42	0.69546			
488242.19	3625596.42	0.68590		488262.19
3625596.42	0.67545			
488282.19	3625596.42	0.66620		488302.19
3625596.42	0.65958			
488322.19	3625596.42	0.65616		488342.19
3625596.42	0.65521			
488362.19	3625596.42	0.65532		488382.19
3625596.42	0.65508			
488402.19	3625596.42	0.65375		488422.19
3625596.42	0.65139			

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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010

, L0000011 , L0000012 ,

*** 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		
488522.19	3625596.42	0.64500	488542.19
3625596.42	0.65130		
488562.19	3625596.42	0.65999	488582.19
3625596.42	0.66877		
488602.19	3625596.42	0.67583	488062.19
3625616.42	0.73916		
488082.19	3625616.42	0.73231	488102.19
3625616.42	0.72707		
488122.19	3625616.42	0.72485	488142.19
3625616.42	0.72533		
488162.19	3625616.42	0.72686	488182.19
3625616.42	0.72709		
488202.19	3625616.42	0.72403	488222.19
3625616.42	0.71703		
488242.19	3625616.42	0.70709	488262.19
3625616.42	0.69630		
488282.19	3625616.42	0.68685	488302.19
3625616.42	0.68026		
488322.19	3625616.42	0.67693	488342.19
3625616.42	0.67606		
488362.19	3625616.42	0.67612	488382.19
3625616.42	0.67566		
488402.19	3625616.42	0.67492	488522.19
3625616.42	0.66739		
488542.19	3625616.42	0.67492	488562.19
3625616.42	0.68417		
488582.19	3625616.42	0.69286	488602.19
3625616.42	0.69935		
488062.19	3625636.42	0.76406	488082.19
3625636.42	0.75691		
488102.19	3625636.42	0.75125	488122.19
3625636.42	0.74857		
488142.19	3625636.42	0.74878	488162.19
3625636.42	0.75022		
488182.19	3625636.42	0.75042	488202.19
3625636.42	0.74718		
488222.19	3625636.42	0.73983	488242.19
3625636.42	0.72947		

488262.19	3625636.42	0.71828	488282.19
3625636.42	0.70859		
488302.19	3625636.42	0.70201	488322.19
3625636.42	0.69881		
488342.19	3625636.42	0.69803	488362.19
3625636.42	0.69799		
488382.19	3625636.42	0.69725	488522.19
3625636.42	0.69140		
488542.19	3625636.42	0.70006	488562.19
3625636.42	0.70966		
488582.19	3625636.42	0.71802	488602.19
3625636.42	0.72384		
488622.19	3625636.42	0.72729	488062.19
3625656.42	0.79041		
488082.19	3625656.42	0.78287	488102.19
3625656.42	0.77674		
488122.19	3625656.42	0.77358	488142.19
3625656.42	0.77351		
488162.19	3625656.42	0.77488	488182.19
3625656.42	0.77508		
488202.19	3625656.42	0.77171	488222.19
3625656.42	0.76395		
488242.19	3625656.42	0.75311	488262.19
3625656.42	0.74147		
488282.19	3625656.42	0.73147	488302.19
3625656.42	0.72490		
488322.19	3625656.42	0.72192	488342.19
3625656.42	0.72122		
488362.19	3625656.42	0.72100	488382.19
3625656.42	0.71993		
488522.19	3625656.42	0.71714	488542.19
3625656.42	0.72675		
488582.19	3625656.42	0.74426	488602.19
3625656.42	0.74939		
488622.19	3625656.42	0.75235	488642.19
3625656.42	0.75414		
488062.19	3625676.42	0.81748	488082.19
3625676.42	0.81030		
488102.19	3625676.42	0.80384	488122.19
3625676.42	0.80022		
488142.19	3625676.42	0.79982	488162.19
3625676.42	0.80107		

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Parkway Bridge Project EIR\ ***   12/21/23
*** AERMET - VERSION 22112 ***   ***
***                               ***   14:45:58

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*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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		
488182.19	3625676.42	0.80117	488202.19
3625676.42	0.79755		
488222.19	3625676.42	0.78939	488242.19
3625676.42	0.77795		
488262.19	3625676.42	0.76581	488282.19
3625676.42	0.75563		
488302.19	3625676.42	0.74906	488322.19
3625676.42	0.74625		
488342.19	3625676.42	0.74559	488362.19
3625676.42	0.74516		
488382.19	3625676.42	0.74360	488582.19
3625676.42	0.77169		
488602.19	3625676.42	0.77613	488622.19
3625676.42	0.77875		
488642.19	3625676.42	0.78060	488062.19
3625696.42	0.84611		
488082.19	3625696.42	0.83942	488102.19
3625696.42	0.83269		
488122.19	3625696.42	0.82857	488142.19
3625696.42	0.82770		
488162.19	3625696.42	0.82873	488182.19
3625696.42	0.82873		
488202.19	3625696.42	0.82487	488222.19
3625696.42	0.81629		
488242.19	3625696.42	0.80424	488262.19
3625696.42	0.79160		
488282.19	3625696.42	0.78123	488302.19
3625696.42	0.77468		
488322.19	3625696.42	0.77196	488342.19
3625696.42	0.77128		
488362.19	3625696.42	0.77060	488382.19
3625696.42	0.76867		
488582.19	3625696.42	0.80040	488602.19

3625696.42	0.80418			
488622.19	3625696.42	0.80661		488642.19
3625696.42	0.80868			
488662.19	3625696.42	0.81182		488042.19
3625716.42	0.87851			
488142.19	3625716.42	0.85726		488162.19
3625716.42	0.85797			
488182.19	3625716.42	0.85785		488202.19
3625716.42	0.85382			
488222.19	3625716.42	0.84478		488242.19
3625716.42	0.83215			
488262.19	3625716.42	0.81901		488282.19
3625716.42	0.80843			
488302.19	3625716.42	0.80189		488322.19
3625716.42	0.79918			
488342.19	3625716.42	0.79836		488362.19
3625716.42	0.79742			
488382.19	3625716.42	0.79535		488602.19
3625716.42	0.83371			
488622.19	3625716.42	0.83610		488642.19
3625716.42	0.83862			
488662.19	3625716.42	0.84313		488682.19
3625716.42	0.85067			
488022.19	3625736.42	0.90219		488042.19
3625736.42	0.91009			
488182.19	3625736.42	0.88867		488202.19
3625736.42	0.88435			
488222.19	3625736.42	0.87481		488242.19
3625736.42	0.86152			
488262.19	3625736.42	0.84782		488282.19
3625736.42	0.83697			
488302.19	3625736.42	0.83049		488322.19
3625736.42	0.82800			
488362.19	3625736.42	0.82665		488382.19
3625736.42	0.82341			
488402.19	3625736.42	0.81937		488602.19
3625736.42	0.86502			
488622.19	3625736.42	0.86765		488642.19
3625736.42	0.87115			
488662.19	3625736.42	0.87743		488682.19
3625736.42	0.88722			
488702.19	3625736.42	0.89969		488002.19
3625756.42	0.91591			
488022.19	3625756.42	0.93224		488182.19
3625756.42	0.92138			
488202.19	3625756.42	0.91672		488222.19

*** AERMOD - VERSION 23132 ***
Parkway Bridge Project EIR\
*** AERMET - VERSION 22112 ***

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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		
488242.19	3625756.42	0.89268	488262.19
3625756.42	0.87839		
488282.19	3625756.42	0.86731	488382.19
3625756.42	0.85319		
488602.19	3625756.42	0.89836	488622.19
3625756.42	0.90158		
488642.19	3625756.42	0.90662	488662.19
3625756.42	0.91509		
488682.19	3625756.42	0.92708	488702.19
3625756.42	0.94069		
487982.19	3625776.42	0.92575	488002.19
3625776.42	0.94605		
488222.19	3625776.42	0.94063	488242.19
3625776.42	0.92591		
488262.19	3625776.42	0.91101	488622.19
3625776.42	0.93831		
488642.19	3625776.42	0.94555	488662.19
3625776.42	0.95643		
488682.19	3625776.42	0.97020	488702.19
3625776.42	0.98387		
488722.19	3625776.42	0.99384	487982.19
3625796.42	0.95673		
488222.19	3625796.42	0.97673	488242.19
3625796.42	0.96119		
488262.19	3625796.42	0.94573	488622.19
3625796.42	0.97961		
488642.19	3625796.42	0.98837	488662.19
3625796.42	1.00156		

488682.19	3625796.42	1.01624	488702.19
3625796.42	1.02861		
488722.19	3625796.42	1.03518	488742.19
3625796.42	1.03394		
488222.19	3625816.42	1.01519	488242.19
3625816.42	0.99878		
488262.19	3625816.42	0.98286	488642.19
3625816.42	1.03531		
488662.19	3625816.42	1.05030	488682.19
3625816.42	1.06465		
488702.19	3625816.42	1.07414	488722.19
3625816.42	1.07594		
488742.19	3625816.42	1.06894	488762.19
3625816.42	1.05377		
488202.19	3625836.42	1.06963	488222.19
3625836.42	1.05630		
488242.19	3625836.42	1.03894	488662.19
3625836.42	1.10219		
488682.19	3625836.42	1.11461	488702.19
3625836.42	1.11964		
488722.19	3625836.42	1.11543	488742.19
3625836.42	1.10205		
488762.19	3625836.42	1.08095	488782.19
3625836.42	1.05450		
488202.19	3625856.42	1.11438	488222.19
3625856.42	1.10003		
488242.19	3625856.42	1.08285	488682.19
3625856.42	1.16508		
488702.19	3625856.42	1.16420	488722.19
3625856.42	1.15311		
488742.19	3625856.42	1.13303	488762.19
3625856.42	1.10632		
488782.19	3625856.42	1.07595	488802.19
3625856.42	1.04503		
488822.19	3625856.42	1.01621	488202.19
3625876.42	1.16181		
488222.19	3625876.42	1.14671	488662.19
3625876.42	1.21220		
488682.19	3625876.42	1.21513	488702.19
3625876.42	1.20705		
488722.19	3625876.42	1.18854	488742.19
3625876.42	1.16193		
488762.19	3625876.42	1.13040	488782.19
3625876.42	1.09743		
488802.19	3625876.42	1.06616	488822.19
3625876.42	1.03881		
488842.19	3625876.42	1.01655	488202.19
3625896.42	1.21199		
488222.19	3625896.42	1.19660	488642.19
3625896.42	1.26139		

488662.19 3625896.42 1.26843 488682.19
 3625896.42 1.26386
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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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		
488702.19	3625896.42	1.24754	488722.19
3625896.42	1.22159		
488742.19	3625896.42	1.18918	488762.19
3625896.42	1.15420		
488782.19	3625896.42	1.12028	488802.19
3625896.42	1.09021		
488822.19	3625896.42	1.06554	488842.19
3625896.42	1.04652		
488862.19	3625896.42	1.03252	488882.19
3625896.42	1.02226		
488902.19	3625896.42	1.01419	488202.19
3625916.42	1.26666		
488222.19	3625916.42	1.25031	488642.19
3625916.42	1.32409		
488662.19	3625916.42	1.32372	488682.19
3625916.42	1.31033		
488702.19	3625916.42	1.28549	488762.19
3625916.42	1.17929		
488782.19	3625916.42	1.14597	488802.19
3625916.42	1.11852		
488822.19	3625916.42	1.09729	488842.19
3625916.42	1.08158		
488862.19	3625916.42	1.07005	488882.19

3625916.42	1.06101		
488902.19	3625916.42	1.05286	488922.19
3625916.42	1.04425		
488942.19	3625916.42	1.03422	488222.19
3625936.42	1.30832		
488622.19	3625936.42	1.38240	488642.19
3625936.42	1.38674		
488662.19	3625936.42	1.37702	488682.19
3625936.42	1.35407		
488782.19	3625936.42	1.17606	488802.19
3625936.42	1.15220		
488822.19	3625936.42	1.13457	488842.19
3625936.42	1.12163		
488862.19	3625936.42	1.11155	488882.19
3625936.42	1.10252		
488902.19	3625936.42	1.09305	488922.19
3625936.42	1.08214		
488942.19	3625936.42	1.06936	488962.19
3625936.42	1.05476		
488982.19	3625936.42	1.03869	489002.19
3625936.42	1.02198		
488602.19	3625956.42	1.44359	488622.19
3625956.42	1.45292		
488642.19	3625956.42	1.44781	488662.19
3625956.42	1.42757		
488782.19	3625956.42	1.21202	488802.19
3625956.42	1.19198		
488822.19	3625956.42	1.17738	488842.19
3625956.42	1.16607		
488862.19	3625956.42	1.15606	488882.19
3625956.42	1.14570		
488902.19	3625956.42	1.13382	488922.19
3625956.42	1.11998		
488942.19	3625956.42	1.10423	488962.19
3625956.42	1.08700		
488982.19	3625956.42	1.06894	489002.19
3625956.42	1.05085		
489022.19	3625956.42	1.03333	489042.19
3625956.42	1.01699		
489062.19	3625956.42	1.00227	489082.19
3625956.42	0.98945		
488622.19	3625976.42	1.52299	488802.19
3625976.42	1.23782		
488822.19	3625976.42	1.22513	488842.19
3625976.42	1.21410		
488862.19	3625976.42	1.20274	488882.19
3625976.42	1.18980		
488902.19	3625976.42	1.17478	488922.19
3625976.42	1.15763		
488942.19	3625976.42	1.13900	488962.19

3625976.42	1.11963			
488982.19	3625976.42	1.10028	489002.19	
3625976.42	1.08175			
489022.19	3625976.42	1.06462	489042.19	
3625976.42	1.04938			
489062.19	3625976.42	1.03635	489082.19	
3625976.42	1.02568			

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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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		
489102.19	3625976.42	1.01743	489122.19
3625976.42	1.01144		
488802.19	3625996.42	1.28917	488822.19
3625996.42	1.27680		
488842.19	3625996.42	1.26452	488922.19
3625996.42	1.19548		
488942.19	3625996.42	1.17448	488962.19
3625996.42	1.15375		
488982.19	3625996.42	1.13409	489002.19
3625996.42	1.11621		
489022.19	3625996.42	1.10052	489042.19
3625996.42	1.08730		
489062.19	3625996.42	1.07664	489082.19
3625996.42	1.06857		
489102.19	3625996.42	1.06284	489122.19
3625996.42	1.05911		
489142.19	3625996.42	1.05693	488802.19
3626016.42	1.34506		

488822.19	3626016.42	1.33109	488842.19
3626016.42	1.31596		
488982.19	3626016.42	1.17249	489002.19
3626016.42	1.15635		
489022.19	3626016.42	1.14297	489042.19
3626016.42	1.13239		
489062.19	3626016.42	1.12450	489082.19
3626016.42	1.11908		
489102.19	3626016.42	1.11547	489122.19
3626016.42	1.11332		
489142.19	3626016.42	1.11204	488782.19
3626036.42	1.41965		
488802.19	3626036.42	1.40396	488822.19
3626036.42	1.38675		
488842.19	3626036.42	1.36773	489042.19
3626036.42	1.18567		
489062.19	3626036.42	1.18030	489082.19
3626036.42	1.17692		
489102.19	3626036.42	1.17460	489122.19
3626036.42	1.17287		
489142.19	3626036.42	1.17116	488782.19
3626056.42	1.48377		
488802.19	3626056.42	1.46449	488822.19
3626056.42	1.44297		
488842.19	3626056.42	1.41976	489042.19
3626056.42	1.24747		
489062.19	3626056.42	1.24370	489082.19
3626056.42	1.24120		
489102.19	3626056.42	1.23891	489122.19
3626056.42	1.23617		
489142.19	3626056.42	1.23256	489162.19
3626056.42	1.22795		
488782.19	3626076.42	1.55093	488802.19
3626076.42	1.52583		
488822.19	3626076.42	1.49976	488842.19
3626076.42	1.47267		
488862.19	3626076.42	1.44600	489062.19
3626076.42	1.31361		
489082.19	3626076.42	1.31036	489102.19
3626076.42	1.30656		
489122.19	3626076.42	1.30148	489142.19
3626076.42	1.29484		
489162.19	3626076.42	1.28683	488782.19
3626096.42	1.61855		
488802.19	3626096.42	1.58810	488822.19
3626096.42	1.55827		
488842.19	3626096.42	1.52877	488862.19
3626096.42	1.50109		
489062.19	3626096.42	1.38803	489082.19
3626096.42	1.38237		

489102.19	3626096.42	1.37549	489122.19
3626096.42	1.36684		
489142.19	3626096.42	1.35625	489162.19
3626096.42	1.34393		
488782.19	3626116.42	1.68586	488802.19
3626116.42	1.65278		
488822.19	3626116.42	1.62094	488842.19
3626116.42	1.59127		
488862.19	3626116.42	1.56526	489062.19
3626116.42	1.46474		
489082.19	3626116.42	1.45520	489102.19
3626116.42	1.44385		

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 Parkway Bridge Project EIR\ *** 12/21/23
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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		
489122.19	3626116.42	1.43061	489142.19
3626116.42	1.41539		
489162.19	3626116.42	1.39800	489182.19
3626116.42	1.37909		
488782.19	3626136.42	1.75711	488802.19
3626136.42	1.72266		
488822.19	3626136.42	1.69156	488842.19
3626136.42	1.66417		
488862.19	3626136.42	1.64166	489082.19
3626136.42	1.52714		
489102.19	3626136.42	1.51024	489122.19
3626136.42	1.49149		
489142.19	3626136.42	1.47082	489162.19

3626136.42	1.44797			
489182.19	3626136.42	1.42386		488782.19
3626156.42	1.83564			
488802.19	3626156.42	1.80238		488822.19
3626156.42	1.77466			
488842.19	3626156.42	1.75141		488862.19
3626156.42	1.73331			
488882.19	3626156.42	1.71980		489102.19
3626156.42	1.57282			
489122.19	3626156.42	1.54766		489142.19
3626156.42	1.52098			
489162.19	3626156.42	1.49248		489182.19
3626156.42	1.46303			
488782.19	3626176.42	1.92684		488802.19
3626176.42	1.89727			
488822.19	3626176.42	1.87447		488842.19
3626176.42	1.85563			
488862.19	3626176.42	1.84115		488882.19
3626176.42	1.82997			
489122.19	3626176.42	1.59743		489142.19
3626176.42	1.56444			
489162.19	3626176.42	1.53046		489182.19
3626176.42	1.49578			
488782.19	3626196.42	2.03615		488802.19
3626196.42	2.01143			
488822.19	3626196.42	1.99319		488842.19
3626196.42	1.97716			
488862.19	3626196.42	1.96357		488882.19
3626196.42	1.95139			
488902.19	3626196.42	1.93868		489142.19
3626196.42	1.60040			
489162.19	3626196.42	1.56097		489182.19
3626196.42	1.52143			
489202.19	3626196.42	1.48198		488782.19
3626216.42	2.16741			
488802.19	3626216.42	2.14644		488822.19
3626216.42	2.12995			
488842.19	3626216.42	2.11354		488862.19
3626216.42	2.09740			
488882.19	3626216.42	2.08080		488902.19
3626216.42	2.06235			
489142.19	3626216.42	1.62818		489162.19
3626216.42	1.58364			
489182.19	3626216.42	1.53958		489202.19
3626216.42	1.49597			
489222.19	3626216.42	1.45283		489242.19
3626216.42	1.41016			
489262.19	3626216.42	1.36839		488782.19
3626236.42	2.32105			
488802.19	3626236.42	2.30077		488822.19

3626236.42	2.28137			
488842.19	3626236.42	2.26101		488862.19
3626236.42	2.23901			
488882.19	3626236.42	2.21458		488902.19
3626236.42	2.18705			
489142.19	3626236.42	1.64727		489162.19
3626236.42	1.59808			
489182.19	3626236.42	1.54978		489202.19
3626236.42	1.50214			
489222.19	3626236.42	1.45524		489242.19
3626236.42	1.40926			
489262.19	3626236.42	1.36487		488782.19
3626256.42	2.49372			
488802.19	3626256.42	2.47042		488822.19
3626256.42	2.44389			
488842.19	3626256.42	2.41435		488862.19
3626256.42	2.38184			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** *** 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		
488882.19	3626256.42	2.34624	488902.19
3626256.42	2.30677		
488922.19	3626256.42	2.26287	489142.19
3626256.42	1.65723		
489162.19	3626256.42	1.60500	489222.19
3626256.42	1.44986		
489242.19	3626256.42	1.40103	489262.19
3626256.42	1.35421		

488882.19	3626276.42	2.46919	488902.19
3626276.42	2.41479		
488922.19	3626276.42	2.35678	489142.19
3626276.42	1.65768		
489162.19	3626276.42	1.60368	489242.19
3626276.42	1.38626		
489262.19	3626276.42	1.33750	488882.19
3626296.42	2.57637		
488902.19	3626296.42	2.50487	489262.19
3626296.42	1.31658		
489282.19	3626296.42	1.26948	488902.19
3626316.42	2.57335		
489282.19	3626316.42	1.24536	489302.19
3626316.42	1.20102		
488902.19	3626336.42	2.61880	488922.19
3626336.42	2.51836		
489302.19	3626336.42	1.17569	489322.19
3626336.42	1.13427		
488922.19	3626356.42	2.52959	488942.19
3626356.42	2.42289		
489322.19	3626356.42	1.10960	488942.19
3626376.42	2.40542		
488962.19	3626376.42	2.29513	489322.19
3626376.42	1.08504		
489342.19	3626376.42	1.04924	488962.19
3626396.42	2.25647		
489322.19	3626396.42	1.06132	489342.19
3626396.42	1.02589		
489342.19	3626416.42	1.00560	489342.19
3626436.42	0.98773		
488086.20	3626768.13	15.69995	488077.21
3626746.82	16.29630		
488075.79	3626778.08	14.62446	488002.86
3626694.73	14.46709		
487535.35	3626865.62	2.41809	487693.75
3626992.77	3.34605		
487795.04	3626883.94	5.36440	487871.55
3626830.06	8.03795		
487958.83	3626811.74	13.98328	488041.80
3626794.50	28.50756		
488094.61	3626765.41	71.38897	488046.12
3626714.76	42.06057		
488007.32	3626665.19	29.69189	487941.59
3626599.46	17.84671		
487911.42	3626574.68	14.89835	487815.52
3626540.19	9.14534		
487709.91	3626504.63	5.96517	487555.82
3626439.98	3.84119		
487490.09	3626487.39	3.13971	487428.67
3626556.36	2.52570		

3625983.83	1.22982			
488872.31	3626110.61	1.53356		488902.14
3626194.13	1.92481			
488931.97	3626270.20	2.30136		488908.77
3626298.76	2.49030			
488936.81	3626348.34	2.45246		488971.36
3626378.01	2.24509			
488968.11	3626409.72	2.19772		488903.08
3626355.25	2.63623			
488864.87	3626256.49	2.37778		488763.27
3626259.34	2.54590			
488787.87	3625962.95	1.21919		488735.67
3625906.27	1.21399			
488620.82	3625988.31	1.56489		488588.00
3625956.98	1.43342			
488671.53	3625861.52	1.17511		488629.77
3625813.79	1.02219			
488588.00	3625746.67	0.87983		488571.59
3625648.23	0.72940			
488516.41	3625666.13	0.72858		488522.37
3625581.11	0.62892			
488431.39	3625576.63	0.63139		488447.79
3625615.41	0.66682			
488388.13	3625616.90	0.67603		488398.57
3625706.40	0.77921			
488406.03	3625745.18	0.83123		488392.60
3625776.50	0.88268			
488350.84	3625722.81	0.80716		488279.24
3625769.05	0.88887			
488282.23	3625807.83	0.95535		488246.43
3625851.08	1.06702			
488230.02	3625946.54	1.33137		488188.26
3625924.17	1.29698			
488213.62	3625757.11	0.91276		488170.36
3625779.49	0.96306			
488170.36	3625733.25	0.88428		488077.88
3625697.45	0.84254			
487973.47	3625822.74	0.99156		487955.57
3625809.32	0.95191			
488058.49	3625678.06	0.82088		488057.00
3625618.40	0.74328			
488107.71	3625596.02	0.70295		488185.27
3625576.63	0.68435			
488228.53	3625528.90	0.62764		488233.01
3625482.66	0.58705			

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 *** AERMET - VERSION 22112 ***

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***

INCLUDING SOURCE(S): 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	X-COORD (M)
Y-COORD (M)	CONC		
487526.96	3626464.52	3.70936	487546.96
3626464.52	3.86213		
487566.96	3626464.52	4.03701	487586.96
3626464.52	4.27788		
487606.96	3626464.52	4.48372	487506.96
3626484.52	3.52571		
487526.96	3626484.52	3.72569	487546.96
3626484.52	3.77659		
487566.96	3626484.52	3.95807	487586.96
3626484.52	4.19594		
487606.96	3626484.52	4.40178	487626.96
3626484.52	4.67674		
487646.96	3626484.52	4.98370	487486.96
3626504.52	3.24990		
487506.96	3626504.52	3.43891	487526.96
3626504.52	3.63587		
487546.96	3626504.52	3.68624	487566.96
3626504.52	3.86897		
487586.96	3626504.52	4.10339	487606.96
3626504.52	4.31638		
487626.96	3626504.52	4.59202	487646.96
3626504.52	4.90072		
487666.96	3626504.52	5.24019	487686.96
3626504.52	5.56490		
487706.96	3626504.52	5.92090	487466.96
3626524.52	2.99884		
487486.96	3626524.52	3.16317	487506.96
3626524.52	3.34249		
487526.96	3626524.52	3.54004	487546.96
3626524.52	3.59905		

487566.96	3626524.52	3.78222	487586.96
3626524.52	4.01227		
487606.96	3626524.52	4.26175	487626.96
3626524.52	4.50524		
487646.96	3626524.52	4.81044	487666.96
3626524.52	5.14444		
487686.96	3626524.52	5.47870	487706.96
3626524.52	5.89170		
487726.96	3626524.52	6.35064	487746.96
3626524.52	6.92758		
487766.96	3626524.52	7.52036	487446.96
3626544.52	2.79153		
487466.96	3626544.52	2.92819	487486.96
3626544.52	3.08320		
487506.96	3626544.52	3.24868	487526.96
3626544.52	3.42064		
487546.96	3626544.52	3.61962	487566.96
3626544.52	3.70388		
487586.96	3626544.52	3.93025	487606.96
3626544.52	4.21056		
487626.96	3626544.52	4.45214	487646.96
3626544.52	4.72256		
487666.96	3626544.52	5.04959	487686.96
3626544.52	5.39051		
487706.96	3626544.52	5.82830	487726.96
3626544.52	6.29386		
487746.96	3626544.52	6.81317	487766.96
3626544.52	7.39791		
487786.96	3626544.52	8.06186	487806.96
3626544.52	8.90446		
487826.96	3626544.52	9.65105	487426.96
3626564.52	2.61979		
487446.96	3626564.52	2.72277	487466.96
3626564.52	2.85767		
487486.96	3626564.52	3.00269	487506.96
3626564.52	3.15815		
487526.96	3626564.52	3.33747	487546.96
3626564.52	3.46590		
487566.96	3626564.52	3.62652	487586.96
3626564.52	3.84738		
487606.96	3626564.52	4.23099	487626.96
3626564.52	4.35486		
487646.96	3626564.52	4.64651	487666.96
3626564.52	4.95258		
487686.96	3626564.52	5.31302	487706.96
3626564.52	5.71637		
487726.96	3626564.52	6.17041	487746.96
3626564.52	6.67955		
487766.96	3626564.52	7.25457	487786.96
3626564.52	7.96789		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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	X-COORD (M)
Y-COORD (M)	CONC		
487806.96	3626564.52	8.72273	487826.96
3626564.52	9.58065		
487846.96	3626564.52	10.56560	487866.96
3626564.52	11.70575		
487426.96	3626584.52	2.55569	487446.96
3626584.52	2.67432		
487466.96	3626584.52	2.80595	487486.96
3626584.52	2.92307		
487506.96	3626584.52	3.07302	487526.96
3626584.52	3.24660		
487546.96	3626584.52	3.36239	487566.96
3626584.52	3.55577		
487586.96	3626584.52	3.76942	487606.96
3626584.52	4.10171		
487626.96	3626584.52	4.26126	487646.96
3626584.52	4.54688		
487666.96	3626584.52	4.86452	487686.96
3626584.52	5.21823		
487706.96	3626584.52	5.59957	487726.96
3626584.52	6.05822		
487746.96	3626584.52	6.55965	487766.96
3626584.52	7.12779		
487786.96	3626584.52	7.77482	487806.96
3626584.52	8.51422		
487826.96	3626584.52	9.36362	487846.96

3626584.52	10.34325		
487866.96	3626584.52	11.47659	487886.96
3626584.52	12.79913		
487906.96	3626584.52	14.35271	487426.96
3626604.52	2.48646		
487446.96	3626604.52	2.60505	487466.96
3626604.52	2.73216		
487486.96	3626604.52	2.85038	487506.96
3626604.52	2.99607		
487526.96	3626604.52	3.15752	487546.96
3626604.52	3.31537		
487566.96	3626604.52	3.49319	487586.96
3626604.52	3.70343		
487606.96	3626604.52	3.92714	487626.96
3626604.52	4.17656		
487646.96	3626604.52	4.45238	487666.96
3626604.52	4.75864		
487686.96	3626604.52	5.10066	487706.96
3626604.52	5.48522		
487726.96	3626604.52	5.91375	487746.96
3626604.52	6.39817		
487766.96	3626604.52	6.94958	487786.96
3626604.52	7.58095		
487806.96	3626604.52	8.29010	487826.96
3626604.52	9.16738		
487846.96	3626604.52	10.08009	487866.96
3626604.52	11.20260		
487886.96	3626604.52	12.52585	487906.96
3626604.52	14.09398		
487926.96	3626604.52	15.95413	487406.96
3626624.52	2.31866		
487426.96	3626624.52	2.42312	487446.96
3626624.52	2.53749		
487466.96	3626624.52	2.65903	487486.96
3626624.52	2.79012		
487506.96	3626624.52	2.92140	487526.96
3626624.52	3.07625		
487546.96	3626624.52	3.25961	487566.96
3626624.52	3.43757		
487586.96	3626624.52	3.65144	487606.96
3626624.52	3.87151		
487626.96	3626624.52	4.10149	487646.96
3626624.52	4.36518		
487666.96	3626624.52	4.65980	487686.96
3626624.52	4.99007		
487706.96	3626624.52	5.35954	487726.96
3626624.52	5.77366		
487746.96	3626624.52	6.24169	487766.96
3626624.52	6.77303		
487786.96	3626624.52	7.37822	487806.96

3626624.52 8.28775
 487826.96 3626624.52 9.14697 487846.96
 3626624.52 10.13952
 487866.96 3626624.52 10.90976 487886.96
 3626624.52 12.21454

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** 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		
487906.96	3626624.52	13.78600	487926.96
3626624.52	15.65444		
487946.96	3626624.52	17.88794	487406.96
3626644.52	2.25998		
487426.96	3626644.52	2.36211	487446.96
3626644.52	2.47173		
487466.96	3626644.52	2.58912	487486.96
3626644.52	2.71694		
487506.96	3626644.52	2.85566	487526.96
3626644.52	2.99927		
487546.96	3626644.52	3.18861	487566.96
3626644.52	3.40132		
487586.96	3626644.52	3.60558	487606.96
3626644.52	3.81899		
487626.96	3626644.52	4.05425	487646.96
3626644.52	4.29058		
487666.96	3626644.52	4.57105	487686.96
3626644.52	4.88861		
487706.96	3626644.52	5.23183	487726.96
3626644.52	5.63213		

487746.96	3626644.52	6.09860	487766.96
3626644.52	6.61007		
487786.96	3626644.52	7.26428	487806.96
3626644.52	7.95966		
487826.96	3626644.52	8.70414	487846.96
3626644.52	9.71170		
487866.96	3626644.52	10.61165	487886.96
3626644.52	11.86933		
487906.96	3626644.52	13.44234	487926.96
3626644.52	15.30754		
487946.96	3626644.52	17.53423	487966.96
3626644.52	20.37350		
487386.96	3626664.52	2.11155	487406.96
3626664.52	2.20346		
487426.96	3626664.52	2.30215	487446.96
3626664.52	2.40806		
487466.96	3626664.52	2.52296	487486.96
3626664.52	2.64686		
487506.96	3626664.52	2.78186	487526.96
3626664.52	2.93293		
487546.96	3626664.52	3.11774	487566.96
3626664.52	3.29461		
487586.96	3626664.52	3.51948	487606.96
3626664.52	3.73689		
487626.96	3626664.52	3.99297	487646.96
3626664.52	4.22159		
487666.96	3626664.52	4.49114	487686.96
3626664.52	4.77471		
487706.96	3626664.52	5.11057	487726.96
3626664.52	5.50576		
487746.96	3626664.52	5.93710	487766.96
3626664.52	6.37512		
487786.96	3626664.52	6.93319	487806.96
3626664.52	7.58545		
487826.96	3626664.52	8.33512	487846.96
3626664.52	9.22169		
487866.96	3626664.52	10.35327	487886.96
3626664.52	11.59333		
487906.96	3626664.52	13.11395	487926.96
3626664.52	14.79771		
487946.96	3626664.52	17.13584	487966.96
3626664.52	20.01597		
487986.96	3626664.52	23.56286	487386.96
3626684.52	2.05845		
487406.96	3626684.52	2.14734	487426.96
3626684.52	2.24317		
487446.96	3626684.52	2.34700	487466.96
3626684.52	2.45835		
487486.96	3626684.52	2.57965	487506.96
3626684.52	2.71390		

3626704.52	1.92545		
487386.96	3626704.52	2.00475	487406.96
3626704.52	2.08893		
487426.96	3626704.52	2.18126	487446.96
3626704.52	2.28829		
487466.96	3626704.52	2.39701	487486.96
3626704.52	2.51762		
487506.96	3626704.52	2.65014	487526.96
3626704.52	2.79914		
487546.96	3626704.52	2.95580	487566.96
3626704.52	3.11838		
487586.96	3626704.52	3.29137	487606.96
3626704.52	3.48203		
487626.96	3626704.52	3.73905	487646.96
3626704.52	4.04887		
487666.96	3626704.52	4.34543	487686.96
3626704.52	4.55434		
487706.96	3626704.52	4.84901	487726.96
3626704.52	5.12698		
487746.96	3626704.52	5.48973	487766.96
3626704.52	5.92000		
487786.96	3626704.52	6.44139	487806.96
3626704.52	7.04632		
487826.96	3626704.52	7.71549	487846.96
3626704.52	8.47537		
487866.96	3626704.52	9.36015	487886.96
3626704.52	10.43643		
487906.96	3626704.52	11.82565	487926.96
3626704.52	13.58201		
487946.96	3626704.52	15.64509	487966.96
3626704.52	18.74833		
487986.96	3626704.52	22.12188	488006.96
3626704.52	26.49593		
488026.96	3626704.52	32.47053	487386.96
3626724.52	1.95199		
487406.96	3626724.52	2.03763	487426.96
3626724.52	2.13057		
487446.96	3626724.52	2.23003	487466.96
3626724.52	2.33538		
487486.96	3626724.52	2.45007	487506.96
3626724.52	2.57652		
487526.96	3626724.52	2.71883	487546.96
3626724.52	2.86698		
487566.96	3626724.52	3.03772	487586.96
3626724.52	3.21650		
487606.96	3626724.52	3.42298	487626.96
3626724.52	3.62805		
487646.96	3626724.52	3.89823	487666.96
3626724.52	4.15641		
487686.96	3626724.52	4.43040	487706.96

3626724.52	4.72941			
487726.96	3626724.52	4.97746		487746.96
3626724.52	5.32546			
487766.96	3626724.52	5.74289		487786.96
3626724.52	6.22594			
487806.96	3626724.52	6.75680		487826.96
3626724.52	7.43834			
487846.96	3626724.52	8.21662		487866.96
3626724.52	9.04107			
487886.96	3626724.52	10.03733		487906.96
3626724.52	11.45509			
487926.96	3626724.52	13.07831		487946.96
3626724.52	15.37027			
487966.96	3626724.52	18.08779		487986.96
3626724.52	21.32470			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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	X-COORD (M)
Y-COORD (M)	CONC		
488006.96	3626724.52	25.53478	488026.96
3626724.52	31.22570		
488046.96	3626724.52	39.29393	487406.96
3626744.52	1.98700		
487426.96	3626744.52	2.08258	487446.96
3626744.52	2.17352		
487466.96	3626744.52	2.27505	487486.96
3626744.52	2.38626		
487506.96	3626744.52	2.51044	487526.96
3626744.52	2.65093		

487546.96	3626744.52	2.78859	487566.96
3626744.52	2.94309		
487586.96	3626744.52	3.14352	487606.96
3626744.52	3.35681		
487626.96	3626744.52	3.54999	487646.96
3626744.52	3.77186		
487666.96	3626744.52	4.01644	487686.96
3626744.52	4.28515		
487706.96	3626744.52	4.57998	487726.96
3626744.52	4.85584		
487746.96	3626744.52	5.19122	487766.96
3626744.52	5.58713		
487786.96	3626744.52	5.98870	487806.96
3626744.52	6.46947		
487826.96	3626744.52	7.17532	487846.96
3626744.52	7.94839		
487866.96	3626744.52	8.77252	487886.96
3626744.52	9.72080		
487906.96	3626744.52	11.06886	487926.96
3626744.52	12.74199		
487946.96	3626744.52	15.05061	487966.96
3626744.52	17.39009		
487986.96	3626744.52	20.39531	488006.96
3626744.52	24.30028		
488026.96	3626744.52	29.53604	488046.96
3626744.52	36.84563		
488066.96	3626744.52	47.89815	487446.96
3626764.52	2.11962		
487466.96	3626764.52	2.21553	487486.96
3626764.52	2.33175		
487506.96	3626764.52	2.46125	487526.96
3626764.52	2.59094		
487546.96	3626764.52	2.71778	487566.96
3626764.52	2.87085		
487586.96	3626764.52	3.04568	487606.96
3626764.52	3.26019		
487626.96	3626764.52	3.46889	487646.96
3626764.52	3.67856		
487666.96	3626764.52	3.90778	487686.96
3626764.52	4.16809		
487706.96	3626764.52	4.47298	487726.96
3626764.52	4.77296		
487746.96	3626764.52	5.09463	487766.96
3626764.52	5.44812		
487786.96	3626764.52	5.78979	487806.96
3626764.52	6.28363		
487826.96	3626764.52	6.84899	487846.96
3626764.52	7.62732		
487866.96	3626764.52	8.53219	487886.96
3626764.52	9.48014		

487906.96	3626764.52	10.72426	487926.96
3626764.52	12.15976		
487946.96	3626764.52	14.36111	487966.96
3626764.52	16.06827		
487986.96	3626764.52	18.33648	488006.96
3626764.52	21.60998		
488026.96	3626764.52	27.22659	488046.96
3626764.52	34.11460		
488066.96	3626764.52	43.33661	488086.96
3626764.52	57.91255		
487466.96	3626784.52	2.17709	487486.96
3626784.52	2.29155		
487506.96	3626784.52	2.40668	487526.96
3626784.52	2.52143		
487546.96	3626784.52	2.65659	487566.96
3626784.52	2.80583		
487586.96	3626784.52	2.96794	487606.96
3626784.52	3.14141		
487626.96	3626784.52	3.32625	487646.96
3626784.52	3.53931		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***
INCLUDING SOURCE(S): L0000013 , L0000014
, L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
, L0000023 , L0000024 ,

*** 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		
487666.96	3626784.52	3.80585	487686.96
3626784.52	4.05494		
487706.96	3626784.52	4.32410	487726.96
3626784.52	4.64874		
487746.96	3626784.52	4.98383	487766.96

3626784.52	5.33194		
487786.96	3626784.52	5.64156	487806.96
3626784.52	6.12022		
487826.96	3626784.52	6.66470	487846.96
3626784.52	7.30535		
487866.96	3626784.52	8.18434	487886.96
3626784.52	9.16544		
487906.96	3626784.52	10.28028	487926.96
3626784.52	11.62975		
487946.96	3626784.52	13.16880	487966.96
3626784.52	15.04073		
487986.96	3626784.52	17.32882	488006.96
3626784.52	20.26577		
488026.96	3626784.52	24.11790	488046.96
3626784.52	30.52044		
487506.96	3626804.52	2.35643	487526.96
3626804.52	2.46076		
487546.96	3626804.52	2.59898	487566.96
3626804.52	2.74230		
487586.96	3626804.52	2.89595	487606.96
3626804.52	3.06221		
487626.96	3626804.52	3.22574	487646.96
3626804.52	3.43985		
487666.96	3626804.52	3.67220	487686.96
3626804.52	3.90882		
487706.96	3626804.52	4.14695	487726.96
3626804.52	4.46552		
487746.96	3626804.52	4.85344	487766.96
3626804.52	5.14220		
487786.96	3626804.52	5.51661	487806.96
3626804.52	5.97178		
487826.96	3626804.52	6.49979	487846.96
3626804.52	7.09016		
487866.96	3626804.52	7.75782	487886.96
3626804.52	8.81657		
487906.96	3626804.52	9.88129	487926.96
3626804.52	11.08527		
487946.96	3626804.52	12.47092	487966.96
3626804.52	14.16219		
487986.96	3626804.52	16.29903	487526.96
3626824.52	2.42338		
487546.96	3626824.52	2.54094	487566.96
3626824.52	2.67536		
487586.96	3626824.52	2.83161	487606.96
3626824.52	3.00977		
487626.96	3626824.52	3.17117	487646.96
3626824.52	3.37166		
487666.96	3626824.52	3.59132	487686.96
3626824.52	3.82233		
487706.96	3626824.52	4.07222	487726.96

3626824.52	4.31999			
487746.96	3626824.52	4.61361		487766.96
3626824.52	4.97140			
487786.96	3626824.52	5.40938		487806.96
3626824.52	5.83402			
487826.96	3626824.52	6.32667		487846.96
3626824.52	6.88821			
487866.96	3626824.52	7.52298		487886.96
3626824.52	8.28107			
487546.96	3626844.52	2.49441		487566.96
3626844.52	2.63091			
487586.96	3626844.52	2.78175		487606.96
3626844.52	2.94954			
487626.96	3626844.52	3.11402		487646.96
3626844.52	3.30741			
487666.96	3626844.52	3.51100		487686.96
3626844.52	3.72523			
487706.96	3626844.52	3.97749		487726.96
3626844.52	4.22628			
487746.96	3626844.52	4.52161		487766.96
3626844.52	4.86913			
487786.96	3626844.52	5.26384		487806.96
3626844.52	5.68436			
487826.96	3626844.52	6.16095		487846.96
3626844.52	6.70051			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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	X-COORD (M)
Y-COORD (M)	CONC		

487546.96	3626864.52	2.44765	487566.96
3626864.52	2.58924		
487586.96	3626864.52	2.73579	487606.96
3626864.52	2.89014		
487626.96	3626864.52	3.05147	487646.96
3626864.52	3.24102		
487666.96	3626864.52	3.43557	487686.96
3626864.52	3.63787		
487706.96	3626864.52	3.88830	487726.96
3626864.52	4.14761		
487746.96	3626864.52	4.44621	487766.96
3626864.52	4.77616		
487786.96	3626864.52	5.11405	487806.96
3626864.52	5.53236		
487566.96	3626884.52	2.53183	487586.96
3626884.52	2.68605		
487606.96	3626884.52	2.83499	487626.96
3626884.52	2.97035		
487646.96	3626884.52	3.16377	487666.96
3626884.52	3.36851		
487686.96	3626884.52	3.57701	487706.96
3626884.52	3.82593		
487726.96	3626884.52	4.07134	487746.96
3626884.52	4.34640		
487766.96	3626884.52	4.64958	487786.96
3626884.52	4.97307		
487586.96	3626904.52	2.63561	487606.96
3626904.52	2.78780		
487626.96	3626904.52	2.91947	487646.96
3626904.52	3.09383		
487666.96	3626904.52	3.28460	487686.96
3626904.52	3.48997		
487706.96	3626904.52	3.73306	487726.96
3626904.52	3.97302		
487746.96	3626904.52	4.24122	487766.96
3626904.52	4.53683		
487626.96	3626924.52	2.87896	487646.96
3626924.52	3.03132		
487666.96	3626924.52	3.20353	487686.96
3626924.52	3.40098		
487706.96	3626924.52	3.63152	487726.96
3626924.52	3.86640		
487746.96	3626924.52	4.13314	487646.96
3626944.52	2.98551		
487666.96	3626944.52	3.15981	487686.96
3626944.52	3.34680		
487706.96	3626944.52	3.54041	487726.96
3626944.52	3.76178		
487666.96	3626964.52	3.10385	487686.96
3626964.52	3.28180		

487706.96	3626964.52	3.46373	487686.96
3626984.52	3.21019		
488242.19	3625436.42	0.53506	488262.19
3625436.42	0.52963		
488242.19	3625456.42	0.54916	488262.19
3625456.42	0.54351		
488282.19	3625456.42	0.53793	488302.19
3625456.42	0.53281		
488322.19	3625456.42	0.52890	488242.19
3625476.42	0.56388		
488262.19	3625476.42	0.55799	488282.19
3625476.42	0.55225		
488302.19	3625476.42	0.54701	488322.19
3625476.42	0.54302		
488342.19	3625476.42	0.54020	488362.19
3625476.42	0.53825		
488242.19	3625496.42	0.57925	488262.19
3625496.42	0.57313		
488282.19	3625496.42	0.56722	488302.19
3625496.42	0.56200		
488322.19	3625496.42	0.55796	488342.19
3625496.42	0.55507		
488362.19	3625496.42	0.55303	488382.19
3625496.42	0.55141		
488402.19	3625496.42	0.54996	488422.19
3625496.42	0.54851		
488242.19	3625516.42	0.59530	488262.19
3625516.42	0.58896		
488282.19	3625516.42	0.58280	488302.19
3625516.42	0.57750		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** *** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3625516.42	488322.19	3625516.42	0.57341	488342.19
3625516.42	488362.19	3625516.42	0.56834	488382.19
3625516.42	488402.19	3625516.42	0.56510	488422.19
3625516.42	488442.19	3625516.42	0.56234	488462.19
3625536.42	488482.19	3625516.42	0.56101	488222.19
3625536.42	488242.19	3625536.42	0.61210	488262.19
3625536.42	488282.19	3625536.42	0.59910	488302.19
3625536.42	488322.19	3625536.42	0.58951	488342.19
3625536.42	488362.19	3625536.42	0.58430	488382.19
3625536.42	488402.19	3625536.42	0.58093	488422.19
3625536.42	488442.19	3625536.42	0.57824	488462.19
3625536.42	488482.19	3625536.42	0.57722	488502.19
3625536.42	488522.19	3625536.42	0.57949	488542.19
3625556.42	488222.19	3625556.42	0.63608	488242.19
3625556.42	488262.19	3625556.42	0.62291	488282.19
3625556.42	488302.19	3625556.42	0.61078	488322.19
3625556.42	488342.19	3625556.42	0.60348	488362.19
3625556.42	488382.19	3625556.42	0.59952	488402.19
3625556.42	488422.19	3625556.42	0.59633	488442.19
3625556.42	488462.19	3625556.42	0.59432	488482.19
3625556.42	488502.19	3625556.42	0.59545	488522.19
3625556.42	488542.19	3625556.42	0.60068	488562.19
488202.19	488202.19	3625576.42	0.65988	488222.19

3625576.42	0.65466			
488242.19	3625576.42	0.64820		488262.19
3625576.42	0.64114			
488282.19	3625576.42	0.63435		488302.19
3625576.42	0.62871			
488322.19	3625576.42	0.62442		488342.19
3625576.42	0.62134			
488362.19	3625576.42	0.61909		488382.19
3625576.42	0.61729			
488402.19	3625576.42	0.61551		488422.19
3625576.42	0.61392			
488442.19	3625576.42	0.61273		488462.19
3625576.42	0.61220			
488482.19	3625576.42	0.61261		488502.19
3625576.42	0.61404			
488522.19	3625576.42	0.61655		488542.19
3625576.42	0.62007			
488562.19	3625576.42	0.62437		488582.19
3625576.42	0.62899			
488122.19	3625596.42	0.68729		488142.19
3625596.42	0.68609			
488162.19	3625596.42	0.68490		488182.19
3625596.42	0.68292			
488202.19	3625596.42	0.67948		488222.19
3625596.42	0.67426			
488242.19	3625596.42	0.66757		488262.19
3625596.42	0.66027			
488282.19	3625596.42	0.65337		488302.19
3625596.42	0.64753			
488322.19	3625596.42	0.64318		488342.19
3625596.42	0.64012			
488362.19	3625596.42	0.63788		488382.19
3625596.42	0.63591			
488402.19	3625596.42	0.63396		488422.19
3625596.42	0.63233			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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	X-COORD (M)
Y-COORD (M)	CONC		
488522.19	3625596.42	0.63657	488542.19
3625596.42	0.64048		
488562.19	3625596.42	0.64518	488582.19
3625596.42	0.65012		
488602.19	3625596.42	0.65493	488062.19
3625616.42	0.71567		
488082.19	3625616.42	0.71328	488102.19
3625616.42	0.71078		
488122.19	3625616.42	0.70885	488142.19
3625616.42	0.70749		
488162.19	3625616.42	0.70616	488182.19
3625616.42	0.70403		
488202.19	3625616.42	0.70037	488222.19
3625616.42	0.69493		
488242.19	3625616.42	0.68801	488262.19
3625616.42	0.68049		
488282.19	3625616.42	0.67338	488302.19
3625616.42	0.66743		
488322.19	3625616.42	0.66294	488342.19
3625616.42	0.65977		
488362.19	3625616.42	0.65743	488382.19
3625616.42	0.65535		
488402.19	3625616.42	0.65428	488522.19
3625616.42	0.65776		
488542.19	3625616.42	0.66211	488562.19
3625616.42	0.66708		
488582.19	3625616.42	0.67228	488602.19
3625616.42	0.67726		
488062.19	3625636.42	0.73863	488082.19
3625636.42	0.73620		
488102.19	3625636.42	0.73363	488122.19
3625636.42	0.73153		
488142.19	3625636.42	0.73002	488162.19
3625636.42	0.72856		
488182.19	3625636.42	0.72631	488202.19
3625636.42	0.72247		
488222.19	3625636.42	0.71676	488242.19
3625636.42	0.70958		
488262.19	3625636.42	0.70178	488282.19
3625636.42	0.69442		

488302.19	3625636.42	0.68832	488322.19
3625636.42	0.68373		
488342.19	3625636.42	0.68045	488362.19
3625636.42	0.67798		
488382.19	3625636.42	0.67577	488522.19
3625636.42	0.68021		
488542.19	3625636.42	0.68499	488562.19
3625636.42	0.69024		
488582.19	3625636.42	0.69566	488602.19
3625636.42	0.70081		
488622.19	3625636.42	0.70556	488062.19
3625656.42	0.76290		
488082.19	3625656.42	0.76031	488102.19
3625656.42	0.75766		
488122.19	3625656.42	0.75539	488142.19
3625656.42	0.75374		
488162.19	3625656.42	0.75220	488182.19
3625656.42	0.74986		
488202.19	3625656.42	0.74586	488222.19
3625656.42	0.73985		
488242.19	3625656.42	0.73235	488262.19
3625656.42	0.72423		
488282.19	3625656.42	0.71655	488302.19
3625656.42	0.71027		
488322.19	3625656.42	0.70563	488342.19
3625656.42	0.70226		
488362.19	3625656.42	0.69960	488382.19
3625656.42	0.69727		
488522.19	3625656.42	0.70401	488542.19
3625656.42	0.70921		
488582.19	3625656.42	0.72035	488602.19
3625656.42	0.72567		
488622.19	3625656.42	0.73058	488642.19
3625656.42	0.73523		
488062.19	3625676.42	0.78780	488082.19
3625676.42	0.78574		
488102.19	3625676.42	0.78314	488122.19
3625676.42	0.78076		
488142.19	3625676.42	0.77895	488162.19
3625676.42	0.77727		

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*** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ ***      12/21/23
*** AERMET - VERSION 22112 ***      ***
***                                     ***
***                                     14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***

INCLUDING SOURCE(S): 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	X-COORD (M)
Y-COORD (M)	CONC		
488182.19	3625676.42	0.77476	488202.19
3625676.42	0.77048		
488222.19	3625676.42	0.76418	488242.19
3625676.42	0.75626		
488262.19	3625676.42	0.74777	488282.19
3625676.42	0.73988		
488302.19	3625676.42	0.73340	488322.19
3625676.42	0.72865		
488342.19	3625676.42	0.72514	488362.19
3625676.42	0.72231		
488382.19	3625676.42	0.71973	488582.19
3625676.42	0.74649		
488602.19	3625676.42	0.75196	488622.19
3625676.42	0.75711		
488642.19	3625676.42	0.76207	488062.19
3625696.42	0.81413		
488082.19	3625696.42	0.81268	488102.19
3625696.42	0.81020		
488122.19	3625696.42	0.80769	488142.19
3625696.42	0.80561		
488162.19	3625696.42	0.80374	488182.19
3625696.42	0.80104		
488202.19	3625696.42	0.79651	488222.19
3625696.42	0.78989		
488242.19	3625696.42	0.78156	488262.19
3625696.42	0.77270		
488282.19	3625696.42	0.76456	488302.19
3625696.42	0.75786		
488322.19	3625696.42	0.75292	488342.19
3625696.42	0.74924		
488362.19	3625696.42	0.74625	488382.19
3625696.42	0.74362		
488582.19	3625696.42	0.77421	488602.19
3625696.42	0.77979		
488622.19	3625696.42	0.78522	488642.19

3625696.42	0.79049			
488662.19	3625696.42	0.79601		488042.19
3625716.42	0.84078			
488142.19	3625716.42	0.83384		488162.19
3625716.42	0.83168			
488182.19	3625716.42	0.82880		488202.19
3625716.42	0.82407			
488222.19	3625716.42	0.81711		488242.19
3625716.42	0.80839			
488262.19	3625716.42	0.79914		488282.19
3625716.42	0.79070			
488302.19	3625716.42	0.78377		488322.19
3625716.42	0.77856			
488342.19	3625716.42	0.77462		488362.19
3625716.42	0.77150			
488382.19	3625716.42	0.76916		488602.19
3625716.42	0.80930			
488622.19	3625716.42	0.81502		488642.19
3625716.42	0.82060			
488662.19	3625716.42	0.82667		488682.19
3625716.42	0.83310			
488022.19	3625736.42	0.86366		488042.19
3625736.42	0.87035			
488182.19	3625736.42	0.85815		488202.19
3625736.42	0.85312			
488222.19	3625736.42	0.84578		488242.19
3625736.42	0.83661			
488262.19	3625736.42	0.82693		488282.19
3625736.42	0.81814			
488302.19	3625736.42	0.81098		488322.19
3625736.42	0.80567			
488362.19	3625736.42	0.79909		488382.19
3625736.42	0.79610			
488402.19	3625736.42	0.79444		488602.19
3625736.42	0.84075			
488622.19	3625736.42	0.84684		488642.19
3625736.42	0.85291			
488662.19	3625736.42	0.85948		488682.19
3625736.42	0.86635			
488702.19	3625736.42	0.87299		488002.19
3625756.42	0.88164			
488022.19	3625756.42	0.89269		488182.19
3625756.42	0.88929			
488202.19	3625756.42	0.88389		488222.19
3625756.42	0.87618			

*** AERMOD - VERSION 23132 ***
Parkway Bridge Project EIR\
*** AERMET - VERSION 22112 ***

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12/21/23

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***

INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
488242.19	3625756.42	0.86653	488262.19
3625756.42	0.85639		
488282.19	3625756.42	0.84724	488382.19
3625756.42	0.82483		
488602.19	3625756.42	0.87429	488622.19
3625756.42	0.88081		
488642.19	3625756.42	0.88748	488662.19
3625756.42	0.89453		
488682.19	3625756.42	0.90165	488702.19
3625756.42	0.90806		
487982.19	3625776.42	0.89778	488002.19
3625776.42	0.91147		
488222.19	3625776.42	0.90854	488242.19
3625776.42	0.89839		
488262.19	3625776.42	0.88775	488622.19
3625776.42	0.91715		
488642.19	3625776.42	0.92452	488662.19
3625776.42	0.93191		
488682.19	3625776.42	0.93897	488702.19
3625776.42	0.94465		
488722.19	3625776.42	0.94767	487982.19
3625796.42	0.92842		
488222.19	3625796.42	0.94292	488242.19
3625796.42	0.93219		
488262.19	3625796.42	0.92107	488622.19
3625796.42	0.95691		
488642.19	3625796.42	0.96412	488662.19
3625796.42	0.97164		
488682.19	3625796.42	0.97820	488702.19
3625796.42	0.98250		

488722.19	3625796.42	0.98333	488742.19
3625796.42	0.97977		
488222.19	3625816.42	0.97950	488242.19
3625816.42	0.96815		
488262.19	3625816.42	0.95662	488642.19
3625816.42	1.00631		
488662.19	3625816.42	1.01363	488682.19
3625816.42	1.01911		
488702.19	3625816.42	1.02133	488722.19
3625816.42	1.01924		
488742.19	3625816.42	1.01215	488762.19
3625816.42	1.00018		
488202.19	3625836.42	1.02870	488222.19
3625836.42	1.01857		
488242.19	3625836.42	1.00652	488662.19
3625836.42	1.05766		
488682.19	3625836.42	1.06140	488702.19
3625836.42	1.06077		
488722.19	3625836.42	1.05499	488742.19
3625836.42	1.04395		
488762.19	3625836.42	1.02821	488782.19
3625836.42	1.00903		
488202.19	3625856.42	1.07101	488222.19
3625856.42	1.06008		
488242.19	3625856.42	1.04808	488682.19
3625856.42	1.10454		
488702.19	3625856.42	1.10035	488722.19
3625856.42	1.09038		
488742.19	3625856.42	1.07513	488762.19
3625856.42	1.05573		
488782.19	3625856.42	1.03387	488802.19
3625856.42	1.01132		
488822.19	3625856.42	0.98961	488202.19
3625876.42	1.11582		
488222.19	3625876.42	1.10434	488662.19
3625876.42	1.15056		
488682.19	3625876.42	1.14816	488702.19
3625876.42	1.13968		
488722.19	3625876.42	1.12517	488742.19
3625876.42	1.10574		
488762.19	3625876.42	1.08312	488782.19
3625876.42	1.05927		
488802.19	3625876.42	1.03600	488822.19
3625876.42	1.01457		
488842.19	3625876.42	0.99574	488202.19
3625896.42	1.16342		
488222.19	3625896.42	1.15159	488642.19
3625896.42	1.19933		
488662.19	3625896.42	1.19884	488682.19
3625896.42	1.19191		

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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***

INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** 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		
488702.19	3625896.42	1.17841	488722.19
3625896.42	1.15931		
488742.19	3625896.42	1.13612	488762.19
3625896.42	1.11102		
488782.19	3625896.42	1.08605	488802.19
3625896.42	1.06283		
488822.19	3625896.42	1.04236	488842.19
3625896.42	1.02491		
488862.19	3625896.42	1.01037	488882.19
3625896.42	0.99820		
488902.19	3625896.42	0.98768	488202.19
3625916.42	1.21496		
488222.19	3625916.42	1.20235	488642.19
3625916.42	1.25250		
488662.19	3625916.42	1.24747	488682.19
3625916.42	1.23528		
488702.19	3625916.42	1.21660	488762.19
3625916.42	1.14042		
488782.19	3625916.42	1.11497	488802.19
3625916.42	1.09260		
488822.19	3625916.42	1.07354	488842.19
3625916.42	1.05759		
488862.19	3625916.42	1.04424	488882.19
3625916.42	1.03271		
488902.19	3625916.42	1.02219	488922.19

3625916.42	1.01193			
488942.19	3625916.42	1.00133		488222.19
3625936.42	1.25710			
488622.19	3625936.42	1.30953		488642.19
3625936.42	1.30665			
488662.19	3625936.42	1.29601		488682.19
3625936.42	1.27815			
488782.19	3625936.42	1.14696		488802.19
3625936.42	1.12598			
488822.19	3625936.42	1.10850		488842.19
3625936.42	1.09387			
488862.19	3625936.42	1.08127		488882.19
3625936.42	1.06977			
488902.19	3625936.42	1.05860		488922.19
3625936.42	1.04711			
488942.19	3625936.42	1.03501		488962.19
3625936.42	1.02219			
488982.19	3625936.42	1.00874		489002.19
3625936.42	0.99518			
488602.19	3625956.42	1.37017		488622.19
3625956.42	1.36956			
488642.19	3625956.42	1.36101		488662.19
3625956.42	1.34425			
488782.19	3625956.42	1.18296		488802.19
3625956.42	1.16355			
488822.19	3625956.42	1.14742		488842.19
3625956.42	1.13357			
488862.19	3625956.42	1.12102		488882.19
3625956.42	1.10889			
488902.19	3625956.42	1.09645		488922.19
3625956.42	1.08339			
488942.19	3625956.42	1.06961		488962.19
3625956.42	1.05525			
488982.19	3625956.42	1.04059		489002.19
3625956.42	1.02610			
489022.19	3625956.42	1.01208		489042.19
3625956.42	0.99891			
489062.19	3625956.42	0.98687		489082.19
3625956.42	0.97607			
488622.19	3625976.42	1.43084		488802.19
3625976.42	1.20538			
488822.19	3625976.42	1.19016		488842.19
3625976.42	1.17651			
488862.19	3625976.42	1.16332		488882.19
3625976.42	1.14985			
488902.19	3625976.42	1.13574		488922.19
3625976.42	1.12079			
488942.19	3625976.42	1.10529		488962.19
3625976.42	1.08960			
488982.19	3625976.42	1.07411		489002.19

3625976.42 1.05929
 489022.19 3625976.42 1.04545 489042.19
 3625976.42 1.03290
 489062.19 3625976.42 1.02180 489082.19
 3625976.42 1.01221

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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** 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		
489102.19	3625976.42	1.00415	489122.19
3625976.42	0.99751		
488802.19	3625996.42	1.25142	488822.19
3625996.42	1.23637		
488842.19	3625996.42	1.22221	488922.19
3625996.42	1.15964		
488942.19	3625996.42	1.14265	488962.19
3625996.42	1.12604		
488982.19	3625996.42	1.11029	489002.19
3625996.42	1.09581		
489022.19	3625996.42	1.08278	489042.19
3625996.42	1.07133		
489062.19	3625996.42	1.06147	489082.19
3625996.42	1.05324		
489102.19	3625996.42	1.04645	489122.19
3625996.42	1.04089		
489142.19	3625996.42	1.03628	488802.19
3626016.42	1.30143		
488822.19	3626016.42	1.28556	488842.19
3626016.42	1.27001		

488982.19	3626016.42	1.15067	489002.19
3626016.42	1.13711		
489022.19	3626016.42	1.12527	489042.19
3626016.42	1.11515		
489062.19	3626016.42	1.10666	489082.19
3626016.42	1.09972		
489102.19	3626016.42	1.09384	489122.19
3626016.42	1.08889		
489142.19	3626016.42	1.08452	488782.19
3626036.42	1.37242		
488802.19	3626036.42	1.35482	488822.19
3626036.42	1.33730		
488842.19	3626036.42	1.31976	489042.19
3626036.42	1.16478		
489062.19	3626036.42	1.15739	489082.19
3626036.42	1.15130		
489102.19	3626036.42	1.14583	489122.19
3626036.42	1.14076		
489142.19	3626036.42	1.13578	488782.19
3626056.42	1.43059		
488802.19	3626056.42	1.41112	488822.19
3626056.42	1.39138		
488842.19	3626056.42	1.37162	489042.19
3626056.42	1.22036		
489062.19	3626056.42	1.21343	489082.19
3626056.42	1.20747		
489102.19	3626056.42	1.20167	489122.19
3626056.42	1.19560		
489142.19	3626056.42	1.18901	489162.19
3626056.42	1.18193		
488782.19	3626076.42	1.49311	488802.19
3626076.42	1.47021		
488822.19	3626076.42	1.44806	488842.19
3626076.42	1.42606		
488862.19	3626076.42	1.40491	489062.19
3626076.42	1.27427		
489082.19	3626076.42	1.26739	489102.19
3626076.42	1.26029		
489122.19	3626076.42	1.25235	489142.19
3626076.42	1.24337		
489162.19	3626076.42	1.23367	488782.19
3626096.42	1.55826		
488802.19	3626096.42	1.53244	488822.19
3626096.42	1.50825		
488842.19	3626096.42	1.48475	488862.19
3626096.42	1.46266		
489062.19	3626096.42	1.33871	489082.19
3626096.42	1.32978		
489102.19	3626096.42	1.32020	489122.19
3626096.42	1.30944		

3626156.42	1.78006			
488802.19	3626156.42	1.75279	488822.19	
3626156.42	1.72884			
488842.19	3626156.42	1.70704	488862.19	
3626156.42	1.68809			
488882.19	3626156.42	1.67188	489102.19	
3626156.42	1.49328			
489122.19	3626156.42	1.46901	489142.19	
3626156.42	1.44386			
489162.19	3626156.42	1.41723	489182.19	
3626156.42	1.38998			
488782.19	3626176.42	1.87182	488802.19	
3626176.42	1.84554			
488822.19	3626176.42	1.82316	488842.19	
3626176.42	1.80252			
488862.19	3626176.42	1.78445	488882.19	
3626176.42	1.76864			
489122.19	3626176.42	1.51382	489142.19	
3626176.42	1.48336			
489162.19	3626176.42	1.45213	489182.19	
3626176.42	1.42026			
488782.19	3626196.42	1.97684	488802.19	
3626196.42	1.95164			
488822.19	3626196.42	1.93036	488842.19	
3626196.42	1.90990			
488862.19	3626196.42	1.89109	488882.19	
3626196.42	1.87353			
488902.19	3626196.42	1.85574	489142.19	
3626196.42	1.51668			
489162.19	3626196.42	1.48056	489182.19	
3626196.42	1.44427			
489202.19	3626196.42	1.40795	488782.19	
3626216.42	2.09684			
488802.19	3626216.42	2.07193	488822.19	
3626216.42	2.05004			
488842.19	3626216.42	2.02790	488862.19	
3626216.42	2.00612			
488882.19	3626216.42	1.98433	488902.19	
3626216.42	1.96136			
489142.19	3626216.42	1.54287	489162.19	
3626216.42	1.50204			
489182.19	3626216.42	1.46158	489202.19	
3626216.42	1.42147			
489222.19	3626216.42	1.38175	489242.19	
3626216.42	1.34245			
489262.19	3626216.42	1.30410	488782.19	
3626236.42	2.23213			
488802.19	3626236.42	2.20583	488822.19	
3626236.42	2.18025			
488842.19	3626236.42	2.15407	488862.19	

3626236.42	2.12685			
488882.19	3626236.42	2.09804		488902.19
3626236.42	2.06714			
489142.19	3626236.42	1.56129		489162.19
3626236.42	1.51620			
489182.19	3626236.42	1.47195		489202.19
3626236.42	1.42826			
489222.19	3626236.42	1.38528		489242.19
3626236.42	1.34320			
489262.19	3626236.42	1.30276		488782.19
3626256.42	2.38078			
488802.19	3626256.42	2.35092		488822.19
3626256.42	2.31857			
488842.19	3626256.42	2.28392		488862.19
3626256.42	2.24730			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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	X-COORD (M)
Y-COORD (M)	CONC		
488882.19	3626256.42	2.20899	488902.19
3626256.42	2.16844		
488922.19	3626256.42	2.12509	489142.19
3626256.42	1.57170		
489162.19	3626256.42	1.52420	489222.19
3626256.42	1.38252		
489242.19	3626256.42	1.33803	489262.19
3626256.42	1.29552		
488882.19	3626276.42	2.31282	488902.19
3626276.42	2.26095		

488922.19	3626276.42	2.20730	489142.19
3626276.42	1.57419		
489162.19	3626276.42	1.52588	489242.19
3626276.42	1.32758		
489262.19	3626276.42	1.28320	488882.19
3626296.42	2.40548		
488902.19	3626296.42	2.34049	489262.19
3626296.42	1.26715		
489282.19	3626296.42	1.22395	488902.19
3626316.42	2.40375		
489282.19	3626316.42	1.20426	489302.19
3626316.42	1.16316		
488902.19	3626336.42	2.44816	488922.19
3626336.42	2.35902		
489302.19	3626336.42	1.14134	489322.19
3626336.42	1.10253		
488922.19	3626356.42	2.37321	488942.19
3626356.42	2.27808		
489322.19	3626356.42	1.08046	488942.19
3626376.42	2.26789		
488962.19	3626376.42	2.16940	489322.19
3626376.42	1.05782		
489342.19	3626376.42	1.02386	488962.19
3626396.42	2.14135		
489322.19	3626396.42	1.03527	489342.19
3626396.42	1.00143		
489342.19	3626416.42	0.98122	489342.19
3626436.42	0.96254		
488086.20	3626768.13	16.13494	488077.21
3626746.82	16.87865		
488075.79	3626778.08	14.51576	488002.86
3626694.73	14.04242		
487535.35	3626865.62	2.36169	487693.75
3626992.77	3.24183		
487795.04	3626883.94	5.13384	487871.55
3626830.06	7.61740		
487958.83	3626811.74	13.17543	488041.80
3626794.50	26.35630		
488094.61	3626765.41	65.37882	488046.12
3626714.76	39.88850		
488007.32	3626665.19	28.38423	487941.59
3626599.46	17.46797		
487911.42	3626574.68	14.83093	487815.52
3626540.19	9.18400		
487709.91	3626504.63	5.98374	487555.82
3626439.98	3.98240		
487490.09	3626487.39	3.35687	487428.67
3626556.36	2.63325		
487358.63	3626713.68	1.86847	487522.42
3626827.90	2.39215		

488235.45	3625424.52	0.52862	488562.08
3625540.85	0.58986		
488747.03	3625794.41	0.97501	488857.40
3625879.42	0.98769		
489054.28	3625949.52	0.98050	489134.82
3625964.44	0.96981		
489178.07	3626085.25	1.24648	489203.43
3626198.60	1.40747		
489260.10	3626203.08	1.30582	489276.51
3626217.99	1.27741		
489267.56	3626265.72	1.27893	489336.17
3626346.26	1.06810		
489361.53	3626432.77	0.93797	489331.70
3626449.18	0.96789		
489309.32	3626361.18	1.10085	489258.61
3626298.53	1.27337		
489190.00	3626228.43	1.45213	489149.73
3626317.92	1.53917		
489130.34	3626250.81	1.59950	489137.80
3626216.50	1.55201		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***
INCLUDING SOURCE(S): L0000013 , L0000014
, L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
, L0000023 , L0000024 ,

*** 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		
489054.28	3626106.13	1.37486	489036.38
3626036.03	1.16617		
488921.53	3625997.25	1.16196	488846.96
3625983.83	1.18995		
488872.31	3626110.61	1.49820	488902.14

3626194.13	1.84386			
488931.97	3626270.20	2.15693		488908.77
3626298.76	2.32796			
488936.81	3626348.34	2.30269		488971.36
3626378.01	2.12510			
488968.11	3626409.72	2.09289		488903.08
3626355.25	2.46814			
488864.87	3626256.49	2.24271		488763.27
3626259.34	2.43505			
488787.87	3625962.95	1.18993		488735.67
3625906.27	1.15954			
488620.82	3625988.31	1.46857		488588.00
3625956.98	1.36886			
488671.53	3625861.52	1.11608		488629.77
3625813.79	0.99642			
488588.00	3625746.67	0.85320		488571.59
3625648.23	0.70715			
488516.41	3625666.13	0.71529		488522.37
3625581.11	0.62117			
488431.39	3625576.63	0.61350		488447.79
3625615.41	0.65056			
488388.13	3625616.90	0.65547		488398.57
3625706.40	0.75471			
488406.03	3625745.18	0.80679		488392.60
3625776.50	0.85494			
488350.84	3625722.81	0.78174		488279.24
3625769.05	0.86786			
488282.23	3625807.83	0.93119		488246.43
3625851.08	1.03398			
488230.02	3625946.54	1.28066		488188.26
3625924.17	1.24369			
488213.62	3625757.11	0.88086		488170.36
3625779.49	0.93048			
488170.36	3625733.25	0.85553		488077.88
3625697.45	0.81455			
487973.47	3625822.74	0.96507		487955.57
3625809.32	0.93001			
488058.49	3625678.06	0.79011		488057.00
3625618.40	0.71834			
488107.71	3625596.02	0.68812		488185.27
3625576.63	0.66297			
488228.53	3625528.90	0.60981		488233.01
3625482.66	0.57121			

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VALUES FOR SOURCE GROUP: ALL

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION ***

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 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
487526.96	3626464.52	7.22470	487546.96
3626464.52	7.56036		
487566.96	3626464.52	7.93670	487586.96
3626464.52	8.41286		
487606.96	3626464.52	8.85689	487506.96
3626484.52	6.81809		
487526.96	3626484.52	7.20145	487546.96
3626484.52	7.39742		
487566.96	3626484.52	7.78373	487586.96
3626484.52	8.25349		
487606.96	3626484.52	8.69141	487626.96
3626484.52	9.24019		
487646.96	3626484.52	9.85477	487486.96
3626504.52	6.30228		
487506.96	3626504.52	6.66742	487526.96
3626504.52	7.04587		
487546.96	3626504.52	7.22719	487566.96
3626504.52	7.61119		
487586.96	3626504.52	8.07437	487606.96
3626504.52	8.52237		
487626.96	3626504.52	9.07287	487646.96
3626504.52	9.69046		
487666.96	3626504.52	10.37103	487686.96
3626504.52	11.05902		
487706.96	3626504.52	11.82111	487466.96
3626524.52	5.83460		
487486.96	3626524.52	6.15163	487506.96
3626524.52	6.50128		
487526.96	3626524.52	6.87977	487546.96

3626524.52	7.06675			
487566.96	3626524.52	7.44730	487586.96	
3626524.52	7.90214			
487606.96	3626524.52	8.39691	487626.96	
3626524.52	8.90494			
487646.96	3626524.52	9.51466	487666.96	
3626524.52	10.18454			
487686.96	3626524.52	10.88515	487706.96	
3626524.52	11.72134			
487726.96	3626524.52	12.64895	487746.96	
3626524.52	13.76664			
487766.96	3626524.52	14.96018	487446.96	
3626544.52	5.45543			
487466.96	3626544.52	5.71936	487486.96	
3626544.52	6.01958			
487506.96	3626544.52	6.34001	487526.96	
3626544.52	6.66711			
487546.96	3626544.52	7.05164	487566.96	
3626544.52	7.30367			
487586.96	3626544.52	7.75125	487606.96	
3626544.52	8.28508			
487626.96	3626544.52	8.78537	487646.96	
3626544.52	9.34492			
487666.96	3626544.52	10.00139	487686.96	
3626544.52	10.70807			
487706.96	3626544.52	11.56372	487726.96	
3626544.52	12.49641			
487746.96	3626544.52	13.54140	487766.96	
3626544.52	14.72059			
487786.96	3626544.52	16.06200	487806.96	
3626544.52	17.70060			
487826.96	3626544.52	19.27766	487426.96	
3626564.52	5.12430			
487446.96	3626564.52	5.33954	487466.96	
3626564.52	5.60142			
487486.96	3626564.52	5.88314	487506.96	
3626564.52	6.18602			
487526.96	3626564.52	6.52901	487546.96	
3626564.52	6.81657			
487566.96	3626564.52	7.16529	487586.96	
3626564.52	7.60138			
487606.96	3626564.52	8.26235	487626.96	
3626564.52	8.60705			
487646.96	3626564.52	9.18830	487666.96	
3626564.52	9.81606			
487686.96	3626564.52	10.53830	487706.96	
3626564.52	11.34660			
487726.96	3626564.52	12.25432	487746.96	
3626564.52	13.27882			
487766.96	3626564.52	14.43863	487786.96	

3626564.52 15.83494

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
487806.96	3626564.52	17.35686	487826.96
3626564.52	19.08866		
487846.96	3626564.52	21.07800	487866.96
3626564.52	23.38215		
487426.96	3626584.52	5.01708	487446.96
3626584.52	5.24790		
487466.96	3626584.52	5.50421	487486.96
3626584.52	5.74823		
487506.96	3626584.52	6.04285	487526.96
3626584.52	6.38068		
487546.96	3626584.52	6.65858	487566.96
3626584.52	7.04478		
487586.96	3626584.52	7.46523	487606.96
3626584.52	8.04432		
487626.96	3626584.52	8.44244	487646.96
3626584.52	9.01005		
487666.96	3626584.52	9.63940	487686.96
3626584.52	10.34285		
487706.96	3626584.52	11.12414	487726.96
3626584.52	12.02093		
487746.96	3626584.52	13.02570	487766.96

3626584.52	14.16840		
487786.96	3626584.52	15.46652	487806.96
3626584.52	16.95721		
487826.96	3626584.52	18.67468	487846.96
3626584.52	20.65932		
487866.96	3626584.52	22.96084	487886.96
3626584.52	25.64887		
487906.96	3626584.52	28.80249	487426.96
3626604.52	4.89812		
487446.96	3626604.52	5.13034	487466.96
3626604.52	5.37943		
487486.96	3626604.52	5.62524	487506.96
3626604.52	5.91311		
487526.96	3626604.52	6.23109	487546.96
3626604.52	6.56522		
487566.96	3626604.52	6.94047	487586.96
3626604.52	7.36333		
487606.96	3626604.52	7.80236	487626.96
3626604.52	8.29500		
487646.96	3626604.52	8.84110	487666.96
3626604.52	9.44902		
487686.96	3626604.52	10.13026	487706.96
3626604.52	10.90045		
487726.96	3626604.52	11.75367	487746.96
3626604.52	12.72177		
487766.96	3626604.52	13.82821	487786.96
3626604.52	15.10072		
487806.96	3626604.52	16.52312	487826.96
3626604.52	18.25569		
487846.96	3626604.52	20.14831	487866.96
3626604.52	22.43174		
487886.96	3626604.52	25.13100	487906.96
3626604.52	28.33750		
487926.96	3626604.52	32.14442	487406.96
3626624.52	4.58255		
487426.96	3626624.52	4.78892	487446.96
3626624.52	5.01424		
487466.96	3626624.52	5.25453	487486.96
3626624.52	5.51458		
487506.96	3626624.52	5.78578	487526.96
3626624.52	6.09426		
487546.96	3626624.52	6.46388	487566.96
3626624.52	6.85237		
487586.96	3626624.52	7.28391	487606.96
3626624.52	7.72093		
487626.96	3626624.52	8.17323	487646.96
3626624.52	8.69176		
487666.96	3626624.52	9.27606	487686.96
3626624.52	9.93433		
487706.96	3626624.52	10.67161	487726.96

3626624.52	11.49819			
487746.96	3626624.52	12.43424	487766.96	
3626624.52	13.49899			
487786.96	3626624.52	14.71358	487806.96	
3626624.52	16.36511			
487826.96	3626624.52	18.06393	487846.96	
3626624.52	20.03412			
487866.96	3626624.52	21.85983	487886.96	
3626624.52	24.52404			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		
487906.96	3626624.52	27.74969	487926.96
3626624.52	31.59167		
487946.96	3626624.52	36.18722	487406.96
3626644.52	4.47946		
487426.96	3626644.52	4.68178	487446.96
3626644.52	4.89939		
487466.96	3626644.52	5.13493	487486.96
3626644.52	5.38951		
487506.96	3626644.52	5.66516	487526.96
3626644.52	5.96237		
487546.96	3626644.52	6.36064	487566.96
3626644.52	6.79830		
487586.96	3626644.52	7.21485	487606.96

3626644.52	7.63848		
487626.96	3626644.52	8.10641	487646.96
3626644.52	8.57275		
487666.96	3626644.52	9.12558	487686.96
3626644.52	9.75818		
487706.96	3626644.52	10.44117	487726.96
3626644.52	11.24125		
487746.96	3626644.52	12.17909	487766.96
3626644.52	13.20373		
487786.96	3626644.52	14.41291	487806.96
3626644.52	15.79288		
487826.96	3626644.52	17.30465	487846.96
3626644.52	19.27796		
487866.96	3626644.52	21.28080	487886.96
3626644.52	23.84011		
487906.96	3626644.52	27.07521	487926.96
3626644.52	30.91611		
487946.96	3626644.52	35.50360	487966.96
3626644.52	41.39047		
487386.96	3626664.52	4.19520	487406.96
3626664.52	4.37872		
487426.96	3626664.52	4.57575	487446.96
3626664.52	4.78703		
487466.96	3626664.52	5.01793	487486.96
3626664.52	5.26680		
487506.96	3626664.52	5.54115	487526.96
3626664.52	5.86310		
487546.96	3626664.52	6.22821	487566.96
3626664.52	6.59105		
487586.96	3626664.52	7.04346	487606.96
3626664.52	7.48732		
487626.96	3626664.52	7.99865	487646.96
3626664.52	8.46036		
487666.96	3626664.52	8.99189	487686.96
3626664.52	9.55971		
487706.96	3626664.52	10.21578	487726.96
3626664.52	11.02595		
487746.96	3626664.52	11.85863	487766.96
3626664.52	12.74403		
487786.96	3626664.52	13.85384	487806.96
3626664.52	15.16136		
487826.96	3626664.52	16.66045	487846.96
3626664.52	18.44232		
487866.96	3626664.52	20.68004	487886.96
3626664.52	23.16538		
487906.96	3626664.52	26.23491	487926.96
3626664.52	29.85924		
487946.96	3626664.52	34.70616	487966.96
3626664.52	40.61418		
487986.96	3626664.52	47.98436	487386.96

3626684.52	4.09814			
	487406.96	3626684.52	4.27619	487426.96
3626684.52	4.46868			
	487446.96	3626684.52	4.67778	487466.96
3626684.52	4.90227			
	487486.96	3626684.52	5.14826	487506.96
3626684.52	5.42562			
	487526.96	3626684.52	5.75934	487546.96
3626684.52	6.06739			
	487566.96	3626684.52	6.40227	487586.96
3626684.52	6.78290			
	487606.96	3626684.52	7.26025	487626.96
3626684.52	7.83095			
	487646.96	3626684.52	8.33659	487666.96
3626684.52	8.86515			
	487686.96	3626684.52	9.34846	487706.96

3626684.52 9.98777
 *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		
487726.96	3626684.52	10.72925	487746.96
3626684.52	11.43719		
487766.96	3626684.52	12.30099	487786.96
3626684.52	13.39850		
487806.96	3626684.52	14.65932	487826.96

3626684.52	16.08904		
487846.96	3626684.52	17.75119	487866.96
3626684.52	19.71792		
487886.96	3626684.52	22.01553	487906.96
3626684.52	24.90134		
487926.96	3626684.52	28.74585	487946.96
3626684.52	33.60426		
487966.96	3626684.52	39.34589	487986.96
3626684.52	46.82149		
488006.96	3626684.52	55.96397	487366.96
3626704.52	3.83912		
487386.96	3626704.52	3.99813	487406.96
3626704.52	4.16682		
487426.96	3626704.52	4.35246	487446.96
3626704.52	4.57114		
487466.96	3626704.52	4.79152	487486.96
3626704.52	5.03919		
487506.96	3626704.52	5.31466	487526.96
3626704.52	5.61991		
487546.96	3626704.52	5.94624	487566.96
3626704.52	6.27760		
487586.96	3626704.52	6.62588	487606.96
3626704.52	7.01144		
487626.96	3626704.52	7.52900	487646.96
3626704.52	8.15084		
487666.96	3626704.52	8.73878	487686.96
3626704.52	9.19389		
487706.96	3626704.52	9.78676	487726.96
3626704.52	10.34597		
487746.96	3626704.52	11.06103	487766.96
3626704.52	11.92666		
487786.96	3626704.52	12.99293	487806.96
3626704.52	14.23510		
487826.96	3626704.52	15.59515	487846.96
3626704.52	17.13218		
487866.96	3626704.52	18.92337	487886.96
3626704.52	21.11636		
487906.96	3626704.52	23.98471	487926.96
3626704.52	27.54778		
487946.96	3626704.52	31.80205	487966.96
3626704.52	38.04539		
487986.96	3626704.52	44.98633	488006.96
3626704.52	54.02384		
488026.96	3626704.52	66.46987	487386.96
3626724.52	3.89882		
487406.96	3626724.52	4.07175	487426.96
3626724.52	4.26027		
487446.96	3626724.52	4.46250	487466.96
3626724.52	4.67650		
487486.96	3626724.52	4.91035	487506.96

Y-COORD (M)	CONC		
488006.96	3626724.52	52.02068	488026.96
3626724.52	63.78357		
488046.96	3626724.52	80.60500	487406.96
3626744.52	3.97630		
487426.96	3626744.52	4.17187	487446.96
3626744.52	4.35556		
487466.96	3626744.52	4.56204	487486.96
3626744.52	4.78908		
487506.96	3626744.52	5.04480	487526.96
3626744.52	5.33908		
487546.96	3626744.52	5.62038	487566.96
3626744.52	5.93917		
487586.96	3626744.52	6.35141	487606.96
3626744.52	6.81127		
487626.96	3626744.52	7.20291	487646.96
3626744.52	7.66023		
487666.96	3626744.52	8.16428	487686.96
3626744.52	8.71703		
487706.96	3626744.52	9.32149	487726.96
3626744.52	9.85759		
487746.96	3626744.52	10.53134	487766.96
3626744.52	11.33823		
487786.96	3626744.52	12.17692	487806.96
3626744.52	13.15209		
487826.96	3626744.52	14.59976	487846.96
3626744.52	16.21707		
487866.96	3626744.52	17.91660	487886.96
3626744.52	19.86704		
487906.96	3626744.52	22.64829	487926.96
3626744.52	26.07745		
487946.96	3626744.52	30.54507	487966.96
3626744.52	35.32925		
487986.96	3626744.52	41.48984	488006.96
3626744.52	49.51294		
488026.96	3626744.52	60.31286	488046.96
3626744.52	75.48848		
488066.96	3626744.52	98.69442	487446.96
3626764.52	4.25259		
487466.96	3626764.52	4.44727	487486.96
3626764.52	4.68722		
487506.96	3626764.52	4.95793	487526.96
3626764.52	5.22676		
487546.96	3626764.52	5.48337	487566.96
3626764.52	5.80143		
487586.96	3626764.52	6.16941	487606.96
3626764.52	6.60571		
487626.96	3626764.52	7.04422	487646.96

3626764.52	7.47399			
	487666.96	3626764.52	7.94325	487686.96
3626764.52	8.48033			
	487706.96	3626764.52	9.11846	487726.96
3626764.52	9.72629			
	487746.96	3626764.52	10.37316	487766.96
3626764.52	11.08328			
	487786.96	3626764.52	11.80050	487806.96
3626764.52	12.82080			
	487826.96	3626764.52	13.99027	487846.96
3626764.52	15.56934			
	487866.96	3626764.52	17.47772	487886.96
3626764.52	19.44665			
	487906.96	3626764.52	22.00934	487926.96
3626764.52	25.01642			
	487946.96	3626764.52	29.25310	487966.96
3626764.52	33.01908			
	487986.96	3626764.52	37.91098	488006.96
3626764.52	44.79554			
	488026.96	3626764.52	55.79428	488046.96
3626764.52	69.92600			
	488066.96	3626764.52	89.29516	488086.96
3626764.52	120.46093			
	487466.96	3626784.52	4.37868	487486.96
3626784.52	4.61628			
	487506.96	3626784.52	4.85351	487526.96
3626784.52	5.08692			
	487546.96	3626784.52	5.36670	487566.96
3626784.52	5.67737			
	487586.96	3626784.52	6.01524	487606.96
3626784.52	6.37554			
	487626.96	3626784.52	6.75735	487646.96

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Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		
487666.96	3626784.52	7.73517	487686.96
3626784.52	8.24841		
487706.96	3626784.52	8.80020	487726.96
3626784.52	9.47740		
487746.96	3626784.52	10.16492	487766.96
3626784.52	10.86876		
487786.96	3626784.52	11.52666	487806.96
3626784.52	12.51908		
487826.96	3626784.52	13.64854	487846.96
3626784.52	14.98340		
487866.96	3626784.52	16.75481	487886.96
3626784.52	18.81428		
487906.96	3626784.52	21.14407	487926.96
3626784.52	23.92139		
487946.96	3626784.52	27.12911	487966.96
3626784.52	31.03725		
487986.96	3626784.52	35.82331	488006.96
3626784.52	41.99440		
488026.96	3626784.52	50.12608	488046.96
3626784.52	62.72292		
487506.96	3626804.52	4.75717	487526.96
3626804.52	4.96773		
487546.96	3626804.52	5.25534	487566.96
3626804.52	5.55292		
487586.96	3626804.52	5.87160	487606.96
3626804.52	6.21623		
487626.96	3626804.52	6.54828	487646.96
3626804.52	6.99860		
487666.96	3626804.52	7.48613	487686.96
3626804.52	7.97555		
487706.96	3626804.52	8.45933	487726.96
3626804.52	9.12936		
487746.96	3626804.52	9.89824	487766.96
3626804.52	10.52695		
487786.96	3626804.52	11.29178	487806.96
3626804.52	12.23416		
487826.96	3626804.52	13.33132	487846.96
3626804.52	14.55562		
487866.96	3626804.52	15.93966	487886.96

3626804.52	18.08393			
487906.96	3626804.52	20.30917		487926.96
3626804.52	22.81555			
487946.96	3626804.52	25.69661		487966.96
3626804.52	29.22397			
487986.96	3626804.52	33.65390		487526.96
3626824.52	4.90055			
487546.96	3626824.52	5.14084		487566.96
3626824.52	5.41778			
487586.96	3626824.52	5.74336		487606.96
3626824.52	6.11897			
487626.96	3626824.52	6.44787		487646.96
3626824.52	6.86667			
487666.96	3626824.52	7.32526		487686.96
3626824.52	7.80342			
487706.96	3626824.52	8.31887		487726.96
3626824.52	8.82045			
487746.96	3626824.52	9.42247		487766.96
3626824.52	10.16596			
487786.96	3626824.52	11.08629		487806.96
3626824.52	11.96080			
487826.96	3626824.52	12.98008		487846.96
3626824.52	14.14347			
487866.96	3626824.52	15.45893		487886.96
3626824.52	17.03823			
487546.96	3626844.52	5.05105		487566.96
3626844.52	5.33354			
487586.96	3626844.52	5.64710		487606.96
3626844.52	5.99815			
487626.96	3626844.52	6.33635		487646.96
3626844.52	6.73923			
487666.96	3626844.52	7.16039		487686.96
3626844.52	7.60009			
487706.96	3626844.52	8.12359		487726.96
3626844.52	8.63043			
487746.96	3626844.52	9.23913		487766.96
3626844.52	9.96076			
487786.96	3626844.52	10.78161		487806.96
3626844.52	11.65076			
487826.96	3626844.52	12.63714		487846.96
3626844.52	13.75491			

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Parkway Bridge Project EIR\ ***      12/21/23
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***                                     14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
-	-	-	-	-
-	-	-	-	-
3626864.52	487546.96	3626864.52	4.95866	487566.96
3626864.52	487586.96	3626864.52	5.55717	487606.96
3626864.52	487626.96	3626864.52	6.20835	487646.96
3626864.52	487666.96	3626864.52	7.00335	487686.96
3626864.52	487706.96	3626864.52	7.93712	487726.96
3626864.52	487746.96	3626864.52	9.08934	487766.96
3626864.52	487786.96	3626864.52	10.46380	487806.96
3626884.52	487566.96	3626884.52	5.13513	487586.96
3626884.52	487606.96	3626884.52	5.76316	487626.96
3626884.52	487646.96	3626884.52	6.43846	487666.96
3626884.52	487686.96	3626884.52	7.29288	487706.96
3626884.52	487726.96	3626884.52	8.31405	487746.96
3626884.52	487766.96	3626884.52	9.50229	487786.96
3626904.52	487586.96	3626904.52	5.35228	487606.96
3626904.52	487626.96	3626904.52	5.93242	487646.96
3626904.52	487666.96	3626904.52	6.68442	487686.96

3626904.52	7.10704		
487706.96	3626904.52	7.61158	487726.96
3626904.52	8.10404		
487746.96	3626904.52	8.65576	487766.96
3626904.52	9.26419		
487626.96	3626924.52	5.85015	487646.96
3626924.52	6.16066		
487666.96	3626924.52	6.51280	487686.96
3626924.52	6.91812		
487706.96	3626924.52	7.39415	487726.96
3626924.52	7.87674		
487746.96	3626924.52	8.42678	487646.96
3626944.52	6.06607		
487666.96	3626944.52	6.42325	487686.96
3626944.52	6.80638		
487706.96	3626944.52	7.20211	487726.96
3626944.52	7.65654		
487666.96	3626964.52	6.30688	487686.96
3626964.52	6.67123		
487706.96	3626964.52	7.04306	487686.96
3626984.52	6.52295		
488242.19	3625436.42	1.08372	488262.19
3625436.42	1.07059		
488242.19	3625456.42	1.11241	488262.19
3625456.42	1.09874		
488282.19	3625456.42	1.08551	488302.19
3625456.42	1.07397		
488322.19	3625456.42	1.06595	488242.19
3625476.42	1.14236		
488262.19	3625476.42	1.12812	488282.19
3625476.42	1.11451		
488302.19	3625476.42	1.10276	488322.19
3625476.42	1.09471		
488342.19	3625476.42	1.09006	488362.19
3625476.42	1.08784		
488242.19	3625496.42	1.17365	488262.19
3625496.42	1.15885		
488282.19	3625496.42	1.14484	488302.19
3625496.42	1.13318		
488322.19	3625496.42	1.12516	488342.19
3625496.42	1.12054		
488362.19	3625496.42	1.11825	488382.19
3625496.42	1.11686		
488402.19	3625496.42	1.11531	488422.19
3625496.42	1.11298		
488242.19	3625516.42	1.20633	488262.19
3625516.42	1.19095		
488282.19	3625516.42	1.17642	488302.19
3625516.42	1.16466		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
488322.19	3625516.42	1.15667	488342.19
3625516.42	1.15210		
488362.19	3625516.42	1.14979	488382.19
3625516.42	1.14827		
488402.19	3625516.42	1.14647	488422.19
3625516.42	1.14393		
488442.19	3625516.42	1.14065	488462.19
3625516.42	1.13700		
488482.19	3625516.42	1.13366	488222.19
3625536.42	1.25557		
488242.19	3625536.42	1.24053	488262.19
3625536.42	1.22457		
488282.19	3625536.42	1.20944	488302.19
3625536.42	1.19747		
488322.19	3625536.42	1.18953	488342.19
3625536.42	1.18504		
488362.19	3625536.42	1.18270	488382.19
3625536.42	1.18107		
488402.19	3625536.42	1.17901	488422.19
3625536.42	1.17625		
488442.19	3625536.42	1.17281	488462.19
3625536.42	1.16906		
488482.19	3625536.42	1.16585	488502.19

3625536.42	1.16421		
488522.19	3625536.42	1.16564	488542.19
3625536.42	1.17118		
488222.19	3625556.42	1.29169	488242.19
3625556.42	1.27643		
488262.19	3625556.42	1.25986	488282.19
3625556.42	1.24428		
488302.19	3625556.42	1.23228	488322.19
3625556.42	1.22435		
488342.19	3625556.42	1.21993	488362.19
3625556.42	1.21763		
488382.19	3625556.42	1.21605	488402.19
3625556.42	1.21375		
488422.19	3625556.42	1.21058	488442.19
3625556.42	1.20676		
488462.19	3625556.42	1.20285	488482.19
3625556.42	1.19998		
488502.19	3625556.42	1.19929	488522.19
3625556.42	1.20211		
488542.19	3625556.42	1.20916	488562.19
3625556.42	1.21989		
488202.19	3625576.42	1.34148	488222.19
3625576.42	1.32967		
488242.19	3625576.42	1.31403	488262.19
3625576.42	1.29686		
488282.19	3625576.42	1.28095	488302.19
3625576.42	1.26879		
488322.19	3625576.42	1.26092	488342.19
3625576.42	1.25666		
488362.19	3625576.42	1.25443	488382.19
3625576.42	1.25265		
488402.19	3625576.42	1.24993	488422.19
3625576.42	1.24634		
488442.19	3625576.42	1.24228	488462.19
3625576.42	1.23849		
488482.19	3625576.42	1.23615	488502.19
3625576.42	1.23644		
488522.19	3625576.42	1.24068	488542.19
3625576.42	1.24930		
488562.19	3625576.42	1.26139	488582.19
3625576.42	1.27461		
488122.19	3625596.42	1.38963	488142.19
3625596.42	1.38916		
488162.19	3625596.42	1.38960	488182.19
3625596.42	1.38794		
488202.19	3625596.42	1.38162	488222.19
3625596.42	1.36972		
488242.19	3625596.42	1.35347	488262.19
3625596.42	1.33572		
488282.19	3625596.42	1.31956	488302.19

3625596.42	1.30712			
488322.19	3625596.42	1.29934		488342.19
3625596.42	1.29534			
488362.19	3625596.42	1.29320		488382.19
3625596.42	1.29099			
488402.19	3625596.42	1.28771		488422.19
3625596.42	1.28372			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
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 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		
488522.19	3625596.42	1.28157	488542.19
3625596.42	1.29178		
488562.19	3625596.42	1.30516	488582.19
3625596.42	1.31889		
488602.19	3625596.42	1.33076	488062.19
3625616.42	1.45483		
488082.19	3625616.42	1.44559	488102.19
3625616.42	1.43785		
488122.19	3625616.42	1.43371	488142.19
3625616.42	1.43282		
488162.19	3625616.42	1.43302	488182.19
3625616.42	1.43112		
488202.19	3625616.42	1.42440	488222.19
3625616.42	1.41196		
488242.19	3625616.42	1.39511	488262.19

3625616.42	1.37680		
488282.19	3625616.42	1.36024	488302.19
3625616.42	1.34769		
488322.19	3625616.42	1.33986	488342.19
3625616.42	1.33583		
488362.19	3625616.42	1.33355	488382.19
3625616.42	1.33100		
488402.19	3625616.42	1.32920	488522.19
3625616.42	1.32515		
488542.19	3625616.42	1.33703	488562.19
3625616.42	1.35125		
488582.19	3625616.42	1.36514	488602.19
3625616.42	1.37661		
488062.19	3625636.42	1.50269	488082.19
3625636.42	1.49311		
488102.19	3625636.42	1.48488	488122.19
3625636.42	1.48010		
488142.19	3625636.42	1.47880	488162.19
3625636.42	1.47878		
488182.19	3625636.42	1.47672	488202.19
3625636.42	1.46965		
488222.19	3625636.42	1.45659	488242.19
3625636.42	1.43905		
488262.19	3625636.42	1.42007	488282.19
3625636.42	1.40301		
488302.19	3625636.42	1.39033	488322.19
3625636.42	1.38254		
488342.19	3625636.42	1.37848	488362.19
3625636.42	1.37597		
488382.19	3625636.42	1.37302	488522.19
3625636.42	1.37161		
488542.19	3625636.42	1.38505	488562.19
3625636.42	1.39989		
488582.19	3625636.42	1.41368	488602.19
3625636.42	1.42464		
488622.19	3625636.42	1.43285	488062.19
3625656.42	1.55330		
488082.19	3625656.42	1.54318	488102.19
3625656.42	1.53440		
488122.19	3625656.42	1.52897	488142.19
3625656.42	1.52725		
488162.19	3625656.42	1.52708	488182.19
3625656.42	1.52493		
488202.19	3625656.42	1.51756	488222.19
3625656.42	1.50380		
488242.19	3625656.42	1.48546	488262.19
3625656.42	1.46570		
488282.19	3625656.42	1.44803	488302.19
3625656.42	1.43516		
488322.19	3625656.42	1.42755	488342.19

3625656.42	1.42347			
488362.19	3625656.42	1.42061		488382.19
3625656.42	1.41721			
488522.19	3625656.42	1.42114		488542.19
3625656.42	1.43596			
488582.19	3625656.42	1.46462		488602.19
3625656.42	1.47506			
488622.19	3625656.42	1.48292		488642.19
3625656.42	1.48938			
488062.19	3625676.42	1.60528		488082.19
3625676.42	1.59604			
488102.19	3625676.42	1.58698		488122.19
3625676.42	1.58099			
488142.19	3625676.42	1.57877		488162.19
3625676.42	1.57834			

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 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		
488182.19	3625676.42	1.57592	488202.19
3625676.42	1.56803		
488222.19	3625676.42	1.55357	488242.19
3625676.42	1.53421		
488262.19	3625676.42	1.51358	488282.19
3625676.42	1.49552		
488302.19	3625676.42	1.48246	488322.19

3625676.42	1.47490			
488342.19	3625676.42	1.47074	488362.19	
3625676.42	1.46747			
488382.19	3625676.42	1.46333	488582.19	
3625676.42	1.51818			
488602.19	3625676.42	1.52809	488622.19	
3625676.42	1.53587			
488642.19	3625676.42	1.54266	488062.19	
3625696.42	1.66024			
488082.19	3625696.42	1.65211	488102.19	
3625696.42	1.64289			
488122.19	3625696.42	1.63627	488142.19	
3625696.42	1.63331			
488162.19	3625696.42	1.63247	488182.19	
3625696.42	1.62977			
488202.19	3625696.42	1.62138	488222.19	
3625696.42	1.60618			
488242.19	3625696.42	1.58580	488262.19	
3625696.42	1.56430			
488282.19	3625696.42	1.54579	488302.19	
3625696.42	1.53253			
488322.19	3625696.42	1.52488	488342.19	
3625696.42	1.52052			
488362.19	3625696.42	1.51685	488382.19	
3625696.42	1.51229			
488582.19	3625696.42	1.57461	488602.19	
3625696.42	1.58397			
488622.19	3625696.42	1.59182	488642.19	
3625696.42	1.59917			
488662.19	3625696.42	1.60783	488042.19	
3625716.42	1.71928			
488142.19	3625716.42	1.69110	488162.19	
3625716.42	1.68965			
488182.19	3625716.42	1.68665	488202.19	
3625716.42	1.67789			
488222.19	3625716.42	1.66190	488242.19	
3625716.42	1.64053			
488262.19	3625716.42	1.61816	488282.19	
3625716.42	1.59913			
488302.19	3625716.42	1.58567	488322.19	
3625716.42	1.57774			
488342.19	3625716.42	1.57298	488362.19	
3625716.42	1.56892			
488382.19	3625716.42	1.56451	488602.19	
3625716.42	1.64301			
488622.19	3625716.42	1.65112	488642.19	
3625716.42	1.65922			
488662.19	3625716.42	1.66980	488682.19	
3625716.42	1.68377			
488022.19	3625736.42	1.76584	488042.19	

3625736.42	1.78044			
488182.19	3625736.42	1.74683	488202.19	
3625736.42	1.73746			
488222.19	3625736.42	1.72059	488242.19	
3625736.42	1.69813			
488262.19	3625736.42	1.67475	488282.19	
3625736.42	1.65512			
488302.19	3625736.42	1.64147	488322.19	
3625736.42	1.63367			
488362.19	3625736.42	1.62574	488382.19	
3625736.42	1.61951			
488402.19	3625736.42	1.61381	488602.19	
3625736.42	1.70577			
488622.19	3625736.42	1.71449	488642.19	
3625736.42	1.72405			
488662.19	3625736.42	1.73691	488682.19	
3625736.42	1.75357			
488702.19	3625736.42	1.77268	488802.19	
3625756.42	1.79755			
488022.19	3625756.42	1.82493	488182.19	
3625756.42	1.81066			
488202.19	3625756.42	1.80062	488222.19	
3625756.42	1.78286			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		

488242.19	3625756.42	1.75921	488262.19
3625756.42	1.73478		
488282.19	3625756.42	1.71455	488382.19
3625756.42	1.67803		
488602.19	3625756.42	1.77265	488622.19
3625756.42	1.78239		
488642.19	3625756.42	1.79410	488662.19
3625756.42	1.80962		
488682.19	3625756.42	1.82873	488702.19
3625756.42	1.84875		
487982.19	3625776.42	1.82353	488002.19
3625776.42	1.85753		
488222.19	3625776.42	1.84917	488242.19
3625776.42	1.82430		
488262.19	3625776.42	1.79876	488622.19
3625776.42	1.85546		
488642.19	3625776.42	1.87007	488662.19
3625776.42	1.88834		
488682.19	3625776.42	1.90917	488702.19
3625776.42	1.92853		
488722.19	3625776.42	1.94151	487982.19
3625796.42	1.88515		
488222.19	3625796.42	1.91964	488242.19
3625796.42	1.89338		
488262.19	3625796.42	1.86680	488622.19
3625796.42	1.93652		
488642.19	3625796.42	1.95249	488662.19
3625796.42	1.97320		
488682.19	3625796.42	1.99444	488702.19
3625796.42	2.01112		
488722.19	3625796.42	2.01851	488742.19
3625796.42	2.01371		
488222.19	3625816.42	1.99469	488242.19
3625816.42	1.96692		
488262.19	3625816.42	1.93947	488642.19
3625816.42	2.04162		
488662.19	3625816.42	2.06393	488682.19
3625816.42	2.08376		
488702.19	3625816.42	2.09547	488722.19
3625816.42	2.09518		
488742.19	3625816.42	2.08109	488762.19
3625816.42	2.05395		
488202.19	3625836.42	2.09833	488222.19
3625836.42	2.07487		
488242.19	3625836.42	2.04546	488662.19
3625836.42	2.15985		
488682.19	3625836.42	2.17600	488702.19
3625836.42	2.18042		
488722.19	3625836.42	2.17042	488742.19

3625836.42	2.14600			
488762.19	3625836.42	2.10916	488782.19	
3625836.42	2.06353			
488202.19	3625856.42	2.18538	488222.19	
3625856.42	2.16011			
488242.19	3625856.42	2.13093	488682.19	
3625856.42	2.26963			
488702.19	3625856.42	2.26456	488722.19	
3625856.42	2.24349			
488742.19	3625856.42	2.20816	488762.19	
3625856.42	2.16205			
488782.19	3625856.42	2.10982	488802.19	
3625856.42	2.05635			
488822.19	3625856.42	2.00582	488202.19	
3625876.42	2.27763			
488222.19	3625876.42	2.25105	488662.19	
3625876.42	2.36276			
488682.19	3625876.42	2.36329	488702.19	
3625876.42	2.34673			
488722.19	3625876.42	2.31372	488742.19	
3625876.42	2.26767			
488762.19	3625876.42	2.21353	488782.19	
3625876.42	2.15670			
488802.19	3625876.42	2.10217	488822.19	
3625876.42	2.05338			
488842.19	3625876.42	2.01229	488202.19	
3625896.42	2.37541			
488222.19	3625896.42	2.34819	488642.19	
3625896.42	2.46071			
488662.19	3625896.42	2.46727	488682.19	
3625896.42	2.45577			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE PERIOD (26304 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 L000022 , L000023 , L000024 ,

*** 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		
488702.19	3625896.42	2.42595	488722.19
3625896.42	2.38089		
488742.19	3625896.42	2.32531	488762.19
3625896.42	2.26522		
488782.19	3625896.42	2.20633	488802.19
3625896.42	2.15304		
488822.19	3625896.42	2.10790	488842.19
3625896.42	2.07143		
488862.19	3625896.42	2.04289	488882.19
3625896.42	2.02046		
488902.19	3625896.42	2.00187	488202.19
3625916.42	2.48162		
488222.19	3625916.42	2.45266	488642.19
3625916.42	2.57659		
488662.19	3625916.42	2.57120	488682.19
3625916.42	2.54562		
488702.19	3625916.42	2.50209	488762.19
3625916.42	2.31971		
488782.19	3625916.42	2.26094	488802.19
3625916.42	2.21112		
488822.19	3625916.42	2.17083	488842.19
3625916.42	2.13917		
488862.19	3625916.42	2.11429	488882.19
3625916.42	2.09372		
488902.19	3625916.42	2.07505	488922.19
3625916.42	2.05618		
488942.19	3625916.42	2.03555	488222.19
3625936.42	2.56541		
488622.19	3625936.42	2.69192	488642.19
3625936.42	2.69339		
488662.19	3625936.42	2.67303	488682.19
3625936.42	2.63221		
488782.19	3625936.42	2.32302	488802.19
3625936.42	2.27818		
488822.19	3625936.42	2.24307	488842.19
3625936.42	2.21551		
488862.19	3625936.42	2.19282	488882.19
3625936.42	2.17229		
488902.19	3625936.42	2.15165	488922.19
3625936.42	2.12925		
488942.19	3625936.42	2.10437	488962.19

3625936.42	2.07695			
488982.19	3625936.42	2.04743		489002.19
3625936.42	2.01716			
488602.19	3625956.42	2.81376		488622.19
3625956.42	2.82248			
488642.19	3625956.42	2.80882		488662.19
3625956.42	2.77182			
488782.19	3625956.42	2.39498		488802.19
3625956.42	2.35553			
488822.19	3625956.42	2.32480		488842.19
3625956.42	2.29964			
488862.19	3625956.42	2.27709		488882.19
3625956.42	2.25459			
488902.19	3625956.42	2.23028		488922.19
3625956.42	2.20337			
488942.19	3625956.42	2.17384		488962.19
3625956.42	2.14225			
488982.19	3625956.42	2.10953		489002.19
3625956.42	2.07695			
489022.19	3625956.42	2.04542		489042.19
3625956.42	2.01589			
489062.19	3625956.42	1.98914		489082.19
3625956.42	1.96552			
488622.19	3625976.42	2.95383		488802.19
3625976.42	2.44320			
488822.19	3625976.42	2.41529		488842.19
3625976.42	2.39060			
488862.19	3625976.42	2.36606		488882.19
3625976.42	2.33965			
488902.19	3625976.42	2.31052		488922.19
3625976.42	2.27842			
488942.19	3625976.42	2.24430		488962.19
3625976.42	2.20923			
488982.19	3625976.42	2.17439		489002.19
3625976.42	2.14104			
489022.19	3625976.42	2.11007		489042.19
3625976.42	2.08227			
489062.19	3625976.42	2.05815		489082.19
3625976.42	2.03789			

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*** AERMET - VERSION 22112 ***      ***
***                                     ***
***                                     14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

```

*** THE PERIOD ( 26304 HRS) AVERAGE CONCENTRATION
***
VALUES FOR SOURCE GROUP: ALL
INCLUDING SOURCE(S):      L0000001      , L0000002

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, L0000003      , L0000004      , L0000005      ,
                  L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
3625976.42	489102.19	3625976.42	2.02158	489122.19
			2.00895	
3625996.42	488802.19	3625996.42	2.54059	488822.19
			2.51317	
3625996.42	488842.19	3625996.42	2.48673	488922.19
			2.35512	
3625996.42	488942.19	3625996.42	2.31713	488962.19
			2.27979	
3625996.42	488982.19	3625996.42	2.24439	489002.19
			2.21201	
3625996.42	489022.19	3625996.42	2.18330	489042.19
			2.15864	
3625996.42	489062.19	3625996.42	2.13811	489082.19
			2.12181	
3625996.42	489102.19	3625996.42	2.10929	489122.19
			2.10000	
3626016.42	489142.19	3625996.42	2.09321	488802.19
			2.64648	
3626016.42	488822.19	3626016.42	2.61665	488842.19
			2.58597	
3626016.42	488982.19	3626016.42	2.32316	489002.19
			2.29346	
3626016.42	489022.19	3626016.42	2.26824	489042.19
			2.24754	
3626016.42	489062.19	3626016.42	2.23116	489082.19
			2.21880	
3626016.42	489102.19	3626016.42	2.20931	489122.19
			2.20220	
3626036.42	489142.19	3626016.42	2.19656	488782.19
			2.79207	
3626036.42	488802.19	3626036.42	2.75877	488822.19
			2.72405	
	488842.19	3626036.42	2.68750	489042.19

3626036.42	2.35045			
489062.19	3626036.42	2.33769		489082.19
3626036.42	2.32822			
489102.19	3626036.42	2.32043		489122.19
3626036.42	2.31363			
489142.19	3626036.42	2.30694		488782.19
3626056.42	2.91436			
488802.19	3626056.42	2.87561		488822.19
3626056.42	2.83434			
488842.19	3626056.42	2.79138		489042.19
3626056.42	2.46782			
489062.19	3626056.42	2.45714		489082.19
3626056.42	2.44867			
489102.19	3626056.42	2.44057		489122.19
3626056.42	2.43178			
489142.19	3626056.42	2.42158		489162.19
3626056.42	2.40988			
488782.19	3626076.42	3.04404		488802.19
3626076.42	2.99603			
488822.19	3626076.42	2.94781		488842.19
3626076.42	2.89873			
488862.19	3626076.42	2.85090		489062.19
3626076.42	2.58788			
489082.19	3626076.42	2.57774		489102.19
3626076.42	2.56684			
489122.19	3626076.42	2.55383		489142.19
3626076.42	2.53821			
489162.19	3626076.42	2.52050		488782.19
3626096.42	3.17681			
488802.19	3626096.42	3.12054		488822.19
3626096.42	3.06652			
488842.19	3626096.42	3.01353		488862.19
3626096.42	2.96375			
489062.19	3626096.42	2.72673		489082.19
3626096.42	2.71215			
489102.19	3626096.42	2.69570		489122.19
3626096.42	2.67628			
489142.19	3626096.42	2.65361		489162.19
3626096.42	2.62811			
488782.19	3626116.42	3.31166		488802.19
3626116.42	3.25175			
488822.19	3626116.42	3.19453		488842.19
3626116.42	3.14099			
488862.19	3626116.42	3.09342		489062.19
3626116.42	2.86995			
489082.19	3626116.42	2.84830		489102.19
3626116.42	2.82371			

*** AERMOD - VERSION 23132 ***
 Parkway Bridge Project EIR\ ***
 *** AERMET - VERSION 22112 ***

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		
489122.19	3626116.42	2.79602	489142.19
3626116.42	2.76503		
489162.19	3626116.42	2.73023	489182.19
3626116.42	2.69298		
488782.19	3626136.42	3.45614	488802.19
3626136.42	3.39417		
488822.19	3626136.42	3.33789	488842.19
3626136.42	3.28735		
488862.19	3626136.42	3.24448	489082.19
3626136.42	2.98305		
489102.19	3626136.42	2.94831	489122.19
3626136.42	2.91059		
489142.19	3626136.42	2.86972	489162.19
3626136.42	2.82492		
489182.19	3626136.42	2.77813	488782.19
3626156.42	3.61570		
488802.19	3626156.42	3.55517	488822.19
3626156.42	3.50350		
488842.19	3626156.42	3.45845	488862.19
3626156.42	3.42139		
488882.19	3626156.42	3.39168	489102.19
3626156.42	3.06610		
489122.19	3626156.42	3.01667	489142.19
3626156.42	2.96484		
489162.19	3626156.42	2.90971	489182.19

3626156.42	2.85302			
488782.19	3626176.42	3.79865	488802.19	
3626176.42	3.74280			
488822.19	3626176.42	3.69762	488842.19	
3626176.42	3.65815			
488862.19	3626176.42	3.62560	488882.19	
3626176.42	3.59860			
489122.19	3626176.42	3.11125	489142.19	
3626176.42	3.04780			
489162.19	3626176.42	2.98258	489182.19	
3626176.42	2.91603			
488782.19	3626196.42	4.01299	488802.19	
3626196.42	3.96307			
488822.19	3626196.42	3.92355	488842.19	
3626196.42	3.88706			
488862.19	3626196.42	3.85466	488882.19	
3626196.42	3.82492			
488902.19	3626196.42	3.79442	489142.19	
3626196.42	3.11708			
489162.19	3626196.42	3.04153	489182.19	
3626196.42	2.96570			
489202.19	3626196.42	2.88993	488782.19	
3626216.42	4.26424			
488802.19	3626216.42	4.21837	488822.19	
3626216.42	4.17999			
488842.19	3626216.42	4.14144	488862.19	
3626216.42	4.10353			
488882.19	3626216.42	4.06512	488902.19	
3626216.42	4.02371			
489142.19	3626216.42	3.17105	489162.19	
3626216.42	3.08567			
489182.19	3626216.42	3.00116	489202.19	
3626216.42	2.91744			
489222.19	3626216.42	2.83458	489242.19	
3626216.42	2.75261			
489262.19	3626216.42	2.67248	488782.19	
3626236.42	4.55318			
488802.19	3626236.42	4.50660	488822.19	
3626236.42	4.46161			
488842.19	3626236.42	4.41508	488862.19	
3626236.42	4.36586			
488882.19	3626236.42	4.31263	488902.19	
3626236.42	4.25419			
489142.19	3626236.42	3.20855	489162.19	
3626236.42	3.11428			
489182.19	3626236.42	3.02172	489202.19	
3626236.42	2.93040			
489222.19	3626236.42	2.84053	489242.19	
3626236.42	2.75246			
489262.19	3626236.42	2.66763	488782.19	

3626256.42 4.87450
 488802.19 3626256.42 4.82134 488822.19
 3626256.42 4.76246
 488842.19 3626256.42 4.69827 488862.19
 3626256.42 4.62913

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
488882.19	3626256.42	4.55523	488902.19
3626256.42	4.47521		
488922.19	3626256.42	4.38797	489142.19
3626256.42	3.22893		
489162.19	3626256.42	3.12920	489222.19
3626256.42	2.83238		
489242.19	3626256.42	2.73906	489262.19
3626256.42	2.64973		
488882.19	3626276.42	4.78201	488902.19
3626276.42	4.67574		
488922.19	3626276.42	4.56408	489142.19
3626276.42	3.23187		
489162.19	3626276.42	3.12956	489242.19
3626276.42	2.71384		
489262.19	3626276.42	2.62070	488882.19
3626296.42	4.98186		
488902.19	3626296.42	4.84536	489262.19

3626296.42	2.58373			
489282.19	3626296.42	2.49343		488902.19
3626316.42	4.97710			
489282.19	3626316.42	2.44962		489302.19
3626316.42	2.36418			
488902.19	3626336.42	5.06696		488922.19
3626336.42	4.87738			
489302.19	3626336.42	2.31703		489322.19
3626336.42	2.23680			
488922.19	3626356.42	4.90280		488942.19
3626356.42	4.70096			
489322.19	3626356.42	2.19006		488942.19
3626376.42	4.67332			
488962.19	3626376.42	4.46454		489322.19
3626376.42	2.14285			
489342.19	3626376.42	2.07310		488962.19
3626396.42	4.39782			
489322.19	3626396.42	2.09660		489342.19
3626396.42	2.02732			
489342.19	3626416.42	1.98682		489342.19
3626436.42	1.95027			
488086.20	3626768.13	31.83489		488077.21
3626746.82	33.17494			
488075.79	3626778.08	29.14022		488002.86
3626694.73	28.50951			
487535.35	3626865.62	4.77978		487693.75
3626992.77	6.58788			
487795.04	3626883.94	10.49825		487871.55
3626830.06	15.65534			
487958.83	3626811.74	27.15871		488041.80
3626794.50	54.86386			
488094.61	3626765.41	136.76779		488046.12
3626714.76	81.94906			
488007.32	3626665.19	58.07612		487941.59
3626599.46	35.31469			
487911.42	3626574.68	29.72928		487815.52
3626540.19	18.32934			
487709.91	3626504.63	11.94891		487555.82
3626439.98	7.82359			
487490.09	3626487.39	6.49658		487428.67
3626556.36	5.15896			
487358.63	3626713.68	3.72751		487522.42
3626827.90	4.83816			
488235.45	3625424.52	1.07124		488562.08
3625540.85	1.18902			
488747.03	3625794.41	2.00395		488857.40
3625879.42	1.99540			
489054.28	3625949.52	1.97798		489134.82
3625964.44	1.95230			
489178.07	3626085.25	2.54973		489203.43

3626198.60	2.88887			
489260.10	3626203.08	2.67695		489276.51
3626217.99	2.61647			
489267.56	3626265.72	2.61348		489336.17
3626346.26	2.16490			
489361.53	3626432.77	1.89989		489331.70
3626449.18	1.96254			
489309.32	3626361.18	2.23168		489258.61
3626298.53	2.59636			
489190.00	3626228.43	2.98082		489149.73
3626317.92	3.14903			
489130.34	3626250.81	3.28736		489137.80
3626216.50	3.19015			

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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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		
489054.28	3626106.13	2.80268	489036.38
3626036.03	2.35272		
488921.53	3625997.25	2.35982	488846.96
3625983.83	2.41977		
488872.31	3626110.61	3.03176	488902.14
3626194.13	3.76867		
488931.97	3626270.20	4.45829	488908.77
3626298.76	4.81826		
488936.81	3626348.34	4.75515	488971.36

3626378.01	4.37019			
488968.11	3626409.72	4.29062		488903.08
3626355.25	5.10437			
488864.87	3626256.49	4.62049		488763.27
3626259.34	4.98095			
488787.87	3625962.95	2.40912		488735.67
3625906.27	2.37353			
488620.82	3625988.31	3.03346		488588.00
3625956.98	2.80228			
488671.53	3625861.52	2.29119		488629.77
3625813.79	2.01861			
488588.00	3625746.67	1.73303		488571.59
3625648.23	1.43655			
488516.41	3625666.13	1.44387		488522.37
3625581.11	1.25010			
488431.39	3625576.63	1.24488		488447.79
3625615.41	1.31738			
488388.13	3625616.90	1.33150		488398.57
3625706.40	1.53392			
488406.03	3625745.18	1.63801		488392.60
3625776.50	1.73762			
488350.84	3625722.81	1.58890		488279.24
3625769.05	1.75673			
488282.23	3625807.83	1.88654		488246.43
3625851.08	2.10100			
488230.02	3625946.54	2.61202		488188.26
3625924.17	2.54068			
488213.62	3625757.11	1.79362		488170.36
3625779.49	1.89355			
488170.36	3625733.25	1.73981		488077.88
3625697.45	1.65709			
487973.47	3625822.74	1.95663		487955.57
3625809.32	1.88192			
488058.49	3625678.06	1.61099		488057.00
3625618.40	1.46161			
488107.71	3625596.02	1.39107		488185.27
3625576.63	1.34732			
488228.53	3625528.90	1.23745		488233.01
3625482.66	1.15827			

*** AERMOD - VERSION 23132 *** *** C:\Users\apol1\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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)		
487526.96	3626464.52	60.29338	(19021102)	487546.96
3626464.52	61.63857	(19021102)		
487566.96	3626464.52	62.37402	(19021102)	487586.96
3626464.52	63.81547	(19021102)		
487606.96	3626464.52	63.83958	(19021102)	487506.96
3626484.52	62.52737	(19040823)		
487526.96	3626484.52	63.49831	(19040823)	487546.96
3626484.52	63.50391	(19040823)		
487566.96	3626484.52	63.82835	(19040823)	487586.96
3626484.52	64.20692	(19040823)		
487606.96	3626484.52	62.96053	(19021102)	487626.96
3626484.52	64.44791	(19021102)		
487646.96	3626484.52	66.09525	(19021102)	487486.96
3626504.52	61.09226	(19040823)		
487506.96	3626504.52	63.38474	(19040823)	487526.96
3626504.52	65.05669	(19040823)		
487546.96	3626504.52	63.91483	(19040823)	487566.96
3626504.52	64.57318	(19040823)		
487586.96	3626504.52	65.86046	(19040823)	487606.96
3626504.52	65.08102	(19040823)		
487626.96	3626504.52	65.72755	(19040823)	487646.96
3626504.52	66.96504	(19040823)		
487666.96	3626504.52	67.97377	(19040823)	487686.96
3626504.52	68.58728	(19021102)		
487706.96	3626504.52	68.63086	(19021102)	487466.96
3626524.52	56.12717	(19040823)		
487486.96	3626524.52	58.59330	(19040823)	487506.96
3626524.52	61.75103	(19040823)		
487526.96	3626524.52	63.83137	(19040823)	487546.96
3626524.52	61.61476	(19040823)		
487566.96	3626524.52	62.49591	(19040823)	487586.96
3626524.52	64.58067	(19040823)		
487606.96	3626524.52	66.19071	(19040823)	487626.96
3626524.52	66.36080	(19040823)		
487646.96	3626524.52	68.51721	(19040823)	487666.96
3626524.52	70.06532	(19040823)		

487686.96	3626524.52	69.77710	(19040823)	487706.96
3626524.52	71.20270	(19040823)		
487726.96	3626524.52	73.64310	(19040823)	487746.96
3626524.52	79.86014	(19040823)		
487766.96	3626524.52	83.76142	(19021102)	487446.96
3626544.52	56.63638	(19022001)		
487466.96	3626544.52	56.66054	(19041421)	487486.96
3626544.52	58.18336	(19041421)		
487506.96	3626544.52	59.21916	(19041421)	487526.96
3626544.52	58.12995	(19040823)		
487546.96	3626544.52	60.57560	(19040823)	487566.96
3626544.52	58.74838	(19040823)		
487586.96	3626544.52	61.60243	(19040823)	487606.96
3626544.52	66.27240	(19040823)		
487626.96	3626544.52	67.30781	(19040823)	487646.96
3626544.52	67.92952	(19040823)		
487666.96	3626544.52	69.93591	(19040823)	487686.96
3626544.52	70.38937	(19040823)		
487706.96	3626544.52	75.41709	(19040823)	487726.96
3626544.52	79.47869	(19040823)		
487746.96	3626544.52	83.15458	(19040823)	487766.96
3626544.52	87.06761	(19040823)		
487786.96	3626544.52	92.00008	(19040823)	487806.96
3626544.52	97.78458	(19040823)		
487826.96	3626544.52	99.65192	(19040823)	487426.96
3626564.52	58.33188	(19022001)		
487446.96	3626564.52	58.48732	(19022001)	487466.96
3626564.52	59.06719	(19022001)		
487486.96	3626564.52	59.40251	(19022001)	487506.96
3626564.52	59.32983	(19022001)		
487526.96	3626564.52	58.11706	(19022001)	487546.96
3626564.52	55.57163	(19022001)		
487566.96	3626564.52	54.01967	(19022001)	487586.96
3626564.52	56.47082	(19022001)		
487606.96	3626564.52	65.20387	(19040823)	487626.96
3626564.52	62.48509	(19040823)		
487646.96	3626564.52	65.38781	(19040823)	487666.96
3626564.52	67.06673	(19040823)		
487686.96	3626564.52	70.30596	(19040823)	487706.96
3626564.52	73.77510	(19040823)		
487726.96	3626564.52	78.06771	(19040823)	487746.96
3626564.52	81.95518	(19040823)		
487766.96	3626564.52	85.99235	(19040823)	487786.96
3626564.52	93.74043	(19040823)		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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)		
487806.96	3626564.52	98.74829	(19040823)	487826.96
3626564.52	102.98559	(19040823)		
487846.96	3626564.52	107.59746	(19040823)	487866.96
3626564.52	113.62710	(19040823)		
487426.96	3626584.52	62.78425	(21012122)	487446.96
3626584.52	62.77376	(21012122)		
487466.96	3626584.52	63.36755	(21012122)	487486.96
3626584.52	62.62571	(21012122)		
487506.96	3626584.52	62.27960	(21012122)	487526.96
3626584.52	64.50704	(21012122)		
487546.96	3626584.52	56.48593	(21012122)	487566.96
3626584.52	55.92010	(19050803)		
487586.96	3626584.52	59.00222	(21012122)	487606.96
3626584.52	65.44758	(21012122)		
487626.96	3626584.52	61.25320	(21012122)	487646.96
3626584.52	62.89512	(19050803)		
487666.96	3626584.52	65.97578	(21012122)	487686.96
3626584.52	68.54632	(21012122)		
487706.96	3626584.52	69.17740	(19040823)	487726.96
3626584.52	75.12694	(19040823)		
487746.96	3626584.52	79.43942	(19040823)	487766.96
3626584.52	83.70313	(19040823)		
487786.96	3626584.52	89.09516	(19040823)	487806.96
3626584.52	94.39537	(19040823)		
487826.96	3626584.52	99.81036	(19040823)	487846.96
3626584.52	105.84191	(19040823)		
487866.96	3626584.52	112.75509	(19040823)	487886.96
3626584.52	119.34228	(19040823)		
487906.96	3626584.52	124.96915	(19040823)	487426.96
3626604.52	65.59337	(21012122)		
487446.96	3626604.52	66.68483	(21012122)	487466.96

3626604.52	67.54545	(21012122)			
487486.96	3626604.52	67.08917	(21012122)		487506.96
3626604.52	66.74762	(21012122)			
487526.96	3626604.52	67.74055	(21012122)		487546.96
3626604.52	61.21974	(21012122)			
487566.96	3626604.52	57.72263	(19050803)		487586.96
3626604.52	57.11944	(19020205)			
487606.96	3626604.52	61.47523	(19050803)		487626.96
3626604.52	64.67550	(19050803)			
487646.96	3626604.52	67.85112	(19050803)		487666.96
3626604.52	70.95327	(21012122)			
487686.96	3626604.52	73.52960	(21012122)		487706.96
3626604.52	74.90377	(19050803)			
487726.96	3626604.52	79.09032	(21012122)		487746.96
3626604.52	83.02857	(21012122)			
487766.96	3626604.52	86.25170	(21012122)		487786.96
3626604.52	88.63807	(21012122)			
487806.96	3626604.52	96.93847	(21012122)		487826.96
3626604.52	102.92444	(21012122)			
487846.96	3626604.52	106.57332	(21012122)		487866.96
3626604.52	111.76401	(21012122)			
487886.96	3626604.52	116.47194	(21012122)		487906.96
3626604.52	120.82306	(21012122)			
487926.96	3626604.52	127.23444	(19040823)		487406.96
3626624.52	65.89245	(21012122)			
487426.96	3626624.52	66.30840	(21012122)		487446.96
3626624.52	67.69331	(21012122)			
487466.96	3626624.52	68.15747	(21012122)		487486.96
3626624.52	68.45823	(21012122)			
487506.96	3626624.52	68.31991	(21012122)		487526.96
3626624.52	68.49591	(21012122)			
487546.96	3626624.52	62.58188	(21012122)		487566.96
3626624.52	57.93490	(19020205)			
487586.96	3626624.52	57.01594	(19020205)		487606.96
3626624.52	59.39655	(19020205)			
487626.96	3626624.52	64.59530	(19020205)		487646.96
3626624.52	68.67970	(19020205)			
487666.96	3626624.52	72.03476	(19020205)		487686.96
3626624.52	74.88162	(19020205)			
487706.96	3626624.52	77.87609	(19020205)		487726.96
3626624.52	81.28711	(19020205)			
487746.96	3626624.52	84.80783	(19020205)		487766.96
3626624.52	88.54209	(19020205)			
487786.96	3626624.52	92.74538	(19020205)		487806.96
3626624.52	103.84080	(21012122)			
487826.96	3626624.52	109.65642	(21012122)		487846.96
3626624.52	113.37089	(21012122)			
487866.96	3626624.52	113.18776	(21012122)		487886.96
3626624.52	118.50628	(21012122)			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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)		
487906.96	3626624.52	122.57514	(19050803)	487926.96
3626624.52	129.05762	(19050803)		
487946.96	3626624.52	138.59302	(21012122)	487406.96
3626644.52	65.66360	(20101601)		
487426.96	3626644.52	66.97981	(20101601)	487446.96
3626644.52	67.79832	(20101601)		
487466.96	3626644.52	67.17349	(20101601)	487486.96
3626644.52	68.03933	(20101601)		
487506.96	3626644.52	69.28702	(20101601)	487526.96
3626644.52	68.36938	(20101601)		
487546.96	3626644.52	61.04934	(21102401)	487566.96
3626644.52	56.73023	(21102401)		
487586.96	3626644.52	57.02483	(21102401)	487606.96
3626644.52	59.76681	(21102401)		
487626.96	3626644.52	62.52590	(21102401)	487646.96
3626644.52	68.56960	(21102401)		
487666.96	3626644.52	72.91935	(21102401)	487686.96
3626644.52	76.29562	(21102401)		
487706.96	3626644.52	81.39020	(21102401)	487726.96
3626644.52	84.84261	(21102401)		
487746.96	3626644.52	86.51262	(21102401)	487766.96
3626644.52	90.58416	(21102401)		
487786.96	3626644.52	100.22577	(21102401)	487806.96
3626644.52	104.66729	(21102401)		
487826.96	3626644.52	110.93770	(20101601)	487846.96
3626644.52	114.55539	(21102401)		

487866.96	3626644.52	115.37469	(21102401)	487886.96
3626644.52	121.77551	(21102401)		
487906.96	3626644.52	127.13099	(21112423)	487926.96
3626644.52	134.69163	(21112423)		
487946.96	3626644.52	144.99260	(21112423)	487966.96
3626644.52	153.57675	(21112423)		
487386.96	3626664.52	64.09764	(20101601)	487406.96
3626664.52	64.75301	(20101601)		
487426.96	3626664.52	65.50725	(20101601)	487446.96
3626664.52	66.59543	(20101601)		
487466.96	3626664.52	66.75726	(20101601)	487486.96
3626664.52	67.28888	(20101601)		
487506.96	3626664.52	67.66352	(21102401)	487526.96
3626664.52	65.74284	(21102401)		
487546.96	3626664.52	65.57961	(21102401)	487566.96
3626664.52	65.88620	(21102401)		
487586.96	3626664.52	63.24483	(21102401)	487606.96
3626664.52	64.00960	(21112423)		
487626.96	3626664.52	64.58866	(21112423)	487646.96
3626664.52	69.49807	(21112423)		
487666.96	3626664.52	74.32187	(21112423)	487686.96
3626664.52	79.71863	(21112423)		
487706.96	3626664.52	84.54994	(21102401)	487726.96
3626664.52	87.34844	(21112423)		
487746.96	3626664.52	92.94314	(21112423)	487766.96
3626664.52	99.70913	(21112423)		
487786.96	3626664.52	104.87513	(21112423)	487806.96
3626664.52	109.61887	(21112423)		
487826.96	3626664.52	115.01812	(21112423)	487846.96
3626664.52	120.32013	(21112423)		
487866.96	3626664.52	125.12040	(21112423)	487886.96
3626664.52	131.98173	(21112423)		
487906.96	3626664.52	138.51874	(21112423)	487926.96
3626664.52	143.71013	(21112423)		
487946.96	3626664.52	148.90403	(21112423)	487966.96
3626664.52	155.08162	(21112423)		
487986.96	3626664.52	165.47275	(21112423)	487386.96
3626684.52	63.64644	(20013121)		
487406.96	3626684.52	64.47025	(20013121)	487426.96
3626684.52	65.02229	(20013121)		
487446.96	3626684.52	65.96702	(19110823)	487466.96
3626684.52	67.12822	(19110823)		
487486.96	3626684.52	68.07317	(19110823)	487506.96
3626684.52	68.15513	(19110823)		
487526.96	3626684.52	67.02000	(21112423)	487546.96
3626684.52	69.26177	(21112423)		
487566.96	3626684.52	71.64414	(21112423)	487586.96
3626684.52	73.35477	(21112423)		
487606.96	3626684.52	73.32127	(21112423)	487626.96
3626684.52	71.99155	(21112423)		

487646.96 3626684.52 74.39341 (21112423) 487666.96
 3626684.52 78.38239 (21112423)
 487686.96 3626684.52 85.44703 (21112423) 487706.96
 3626684.52 89.88342 (21112423)

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
487726.96	3626684.52	93.92448 (21112423)	487746.96
3626684.52	100.59833 (21112423)		
487766.96	3626684.52	106.42562 (21112423)	487786.96
3626684.52	110.18101 (21112423)		
487806.96	3626684.52	114.20897 (21112423)	487826.96
3626684.52	118.97502 (21112423)		
487846.96	3626684.52	124.12125 (21112423)	487866.96
3626684.52	129.52142 (21112423)		
487886.96	3626684.52	135.63328 (21112423)	487906.96
3626684.52	141.52572 (21112423)		
487926.96	3626684.52	146.75807 (21112423)	487946.96
3626684.52	147.06475 (21112423)		
487966.96	3626684.52	154.87415 (21112423)	487986.96
3626684.52	159.85963 (21112423)		
488006.96	3626684.52	178.36297 (21020701)	487366.96
3626704.52	64.52288 (20012319)		
487386.96	3626704.52	65.90538 (20012319)	487406.96
3626704.52	67.48610 (20012319)		
487426.96	3626704.52	68.58734 (20012319)	487446.96
3626704.52	68.22090 (21112423)		
487466.96	3626704.52	69.68541 (21112423)	487486.96

3626704.52	70.70242	(21112423)		
487506.96	3626704.52	71.36297	(21112423)	487526.96
3626704.52	72.22910	(21112423)		
487546.96	3626704.52	72.86710	(21112423)	487566.96
3626704.52	74.77769	(21112423)		
487586.96	3626704.52	77.39921	(21112423)	487606.96
3626704.52	79.91818	(21112423)		
487626.96	3626704.52	80.06090	(21112423)	487646.96
3626704.52	77.58077	(21112423)		
487666.96	3626704.52	78.33127	(21112423)	487686.96
3626704.52	85.54885	(21112423)		
487706.96	3626704.52	90.47193	(21112423)	487726.96
3626704.52	97.33214	(21112423)		
487746.96	3626704.52	102.77430	(21112423)	487766.96
3626704.52	107.03546	(21112423)		
487786.96	3626704.52	110.20245	(21112423)	487806.96
3626704.52	113.32086	(21112423)		
487826.96	3626704.52	117.87763	(21112423)	487846.96
3626704.52	123.37825	(21112423)		
487866.96	3626704.52	129.36843	(21112423)	487886.96
3626704.52	135.29400	(21112423)		
487906.96	3626704.52	140.12416	(21112423)	487926.96
3626704.52	146.02952	(21112423)		
487946.96	3626704.52	152.83764	(21112423)	487966.96
3626704.52	152.82780	(21020701)		
487986.96	3626704.52	166.82589	(21020701)	488006.96
3626704.52	188.45079	(21101502)		
488026.96	3626704.52	211.81699	(21101502)	487386.96
3626724.52	66.84907	(20012319)		
487406.96	3626724.52	67.79975	(21112423)	487426.96
3626724.52	68.98073	(21112423)		
487446.96	3626724.52	70.14740	(21112423)	487466.96
3626724.52	71.44914	(21112423)		
487486.96	3626724.52	72.65814	(21112423)	487506.96
3626724.52	73.58480	(21112423)		
487526.96	3626724.52	73.87543	(21112423)	487546.96
3626724.52	74.86682	(21112423)		
487566.96	3626724.52	75.90178	(21112423)	487586.96
3626724.52	76.78451	(21112423)		
487606.96	3626724.52	76.51948	(21112423)	487626.96
3626724.52	78.61489	(21112423)		
487646.96	3626724.52	79.31208	(21112423)	487666.96
3626724.52	80.90070	(21112423)		
487686.96	3626724.52	83.89267	(21112423)	487706.96
3626724.52	87.53934	(21112423)		
487726.96	3626724.52	94.25579	(21112423)	487746.96
3626724.52	98.88421	(21112423)		
487766.96	3626724.52	102.46476	(21112423)	487786.96
3626724.52	105.95864	(21112423)		
487806.96	3626724.52	110.48842	(21112423)	487826.96

3626724.52 113.20810 (21112423)
 487846.96 3626724.52 116.67329 (21112423) 487866.96
 3626724.52 125.16942 (21120107)
 487886.96 3626724.52 133.96222 (21120107) 487906.96
 3626724.52 137.72231 (21020701)
 487926.96 3626724.52 144.80635 (21020701) 487946.96
 3626724.52 151.21990 (21020701)
 487966.96 3626724.52 162.82500 (21101502) 487986.96
 3626724.52 177.76726 (21101502)

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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)		
488006.96	3626724.52	194.46534	(21101502)	488026.96
3626724.52	222.87358	(19121406)		
488046.96	3626724.52	258.88029	(19121406)	487406.96
3626744.52	67.00896	(21112423)		
487426.96	3626744.52	67.60405	(21112423)	487446.96
3626744.52	68.94219	(21112423)		
487466.96	3626744.52	70.04443	(21112423)	487486.96
3626744.52	71.02035	(21112423)		
487506.96	3626744.52	71.64448	(21112423)	487526.96
3626744.52	71.60456	(21112423)		
487546.96	3626744.52	72.93596	(21112423)	487566.96
3626744.52	73.87074	(21112423)		
487586.96	3626744.52	72.77494	(21112423)	487606.96
3626744.52	71.39906	(21112423)		
487626.96	3626744.52	73.56233	(21112423)	487646.96
3626744.52	75.02663	(21112423)		

487666.96	3626744.52	76.60540	(21112423)	487686.96
3626744.52	78.44319	(21112423)		
487706.96	3626744.52	80.66096	(21112423)	487726.96
3626744.52	86.44527	(19040206)		
487746.96	3626744.52	94.09584	(21120107)	487766.96
3626744.52	100.75382	(21120107)		
487786.96	3626744.52	108.02277	(21120107)	487806.96
3626744.52	116.02562	(21120107)		
487826.96	3626744.52	118.34650	(21120107)	487846.96
3626744.52	121.67732	(21020701)		
487866.96	3626744.52	130.22766	(21020701)	487886.96
3626744.52	139.62466	(21020701)		
487906.96	3626744.52	142.46139	(21020701)	487926.96
3626744.52	149.38052	(21101502)		
487946.96	3626744.52	157.13530	(21101502)	487966.96
3626744.52	168.54778	(21101502)		
487986.96	3626744.52	183.05832	(19121406)	488006.96
3626744.52	208.17139	(19121406)		
488026.96	3626744.52	233.15920	(19121406)	488046.96
3626744.52	277.45324	(19120405)		
488066.96	3626744.52	333.62691	(19120405)	487446.96
3626764.52	67.37543	(19091906)		
487466.96	3626764.52	68.77733	(19091906)	487486.96
3626764.52	68.68849	(19091906)		
487506.96	3626764.52	67.72788	(19091906)	487526.96
3626764.52	67.97926	(19091906)		
487546.96	3626764.52	70.09113	(19091906)	487566.96
3626764.52	70.22608	(19091906)		
487586.96	3626764.52	69.26796	(19091906)	487606.96
3626764.52	69.59681	(19040206)		
487626.96	3626764.52	70.43519	(19040206)	487646.96
3626764.52	72.97600	(19040206)		
487666.96	3626764.52	77.37233	(21120107)	487686.96
3626764.52	81.20196	(21120107)		
487706.96	3626764.52	83.21532	(21120107)	487726.96
3626764.52	89.42350	(21120107)		
487746.96	3626764.52	96.86673	(21120107)	487766.96
3626764.52	104.66508	(21120107)		
487786.96	3626764.52	112.89039	(21120107)	487806.96
3626764.52	119.56057	(21020701)		
487826.96	3626764.52	126.53547	(21020701)	487846.96
3626764.52	131.11836	(21020701)		
487866.96	3626764.52	131.66510	(21020701)	487886.96
3626764.52	139.62342	(21101502)		
487906.96	3626764.52	147.68691	(21101502)	487926.96
3626764.52	155.82951	(21101502)		
487946.96	3626764.52	159.41558	(21101502)	487966.96
3626764.52	181.78229	(19121406)		
487986.96	3626764.52	205.26870	(19121406)	488006.96
3626764.52	227.74838	(19121406)		

488026.96	3626764.52	256.35480	(19120405)	488046.96
3626764.52	284.38799	(19120405)		
488066.96	3626764.52	366.50157	(19120716)	488086.96
3626764.52	515.94284	(19120716)		
487466.96	3626784.52	65.76944	(19091906)	487486.96
3626784.52	65.11185	(19091906)		
487506.96	3626784.52	65.28598	(19091906)	487526.96
3626784.52	67.10365	(19040206)		
487546.96	3626784.52	68.56860	(21120107)	487566.96
3626784.52	71.40356	(21120107)		
487586.96	3626784.52	74.16773	(21120107)	487606.96
3626784.52	77.16402	(21120107)		
487626.96	3626784.52	80.57843	(21120107)	487646.96
3626784.52	82.81980	(21120107)		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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)		
487666.96	3626784.52	84.62952	(21120107)	487686.96
3626784.52	87.68796	(21120107)		
487706.96	3626784.52	91.32588	(21120107)	487726.96
3626784.52	94.90028	(21020701)		
487746.96	3626784.52	100.83767	(21020701)	487766.96
3626784.52	108.57525	(21020701)		
487786.96	3626784.52	117.44443	(21020701)	487806.96
3626784.52	122.43033	(21020701)		
487826.96	3626784.52	127.29092	(21020701)	487846.96
3626784.52	131.65457	(21101502)		
487866.96	3626784.52	139.21342	(21101502)	487886.96

3626784.52	144.65482	(21101502)		
487906.96	3626784.52	150.41978	(21101502)	487926.96
3626784.52	159.43409	(19121406)		
487946.96	3626784.52	178.10102	(19121406)	487966.96
3626784.52	195.94688	(19121406)		
487986.96	3626784.52	214.39533	(20010904)	488006.96
3626784.52	243.30556	(20010904)		
488026.96	3626784.52	279.35869	(19120405)	488046.96
3626784.52	301.15326	(19013006)		
487506.96	3626804.52	69.81143	(21120107)	487526.96
3626804.52	74.15072	(21120107)		
487546.96	3626804.52	76.08935	(21120107)	487566.96
3626804.52	78.39631	(21120107)		
487586.96	3626804.52	80.74094	(21120107)	487606.96
3626804.52	83.05466	(21120107)		
487626.96	3626804.52	87.06901	(21120107)	487646.96
3626804.52	87.44076	(21120107)		
487666.96	3626804.52	89.07252	(21020701)	487686.96
3626804.52	93.61912	(21020701)		
487706.96	3626804.52	99.69984	(21020701)	487726.96
3626804.52	101.72846	(21020701)		
487746.96	3626804.52	104.12058	(21020701)	487766.96
3626804.52	109.78207	(21020701)		
487786.96	3626804.52	115.46948	(19050905)	487806.96
3626804.52	121.65433	(21101502)		
487826.96	3626804.52	128.36813	(21101502)	487846.96
3626804.52	134.96425	(21101502)		
487866.96	3626804.52	143.90279	(20122119)	487886.96
3626804.52	146.97290	(19121406)		
487906.96	3626804.52	160.91507	(19121406)	487926.96
3626804.52	174.74272	(19121406)		
487946.96	3626804.52	188.71337	(19121406)	487966.96
3626804.52	207.85747	(20010904)		
487986.96	3626804.52	230.44217	(19120405)	487526.96
3626824.52	77.71536	(21120107)		
487546.96	3626824.52	80.48866	(21120107)	487566.96
3626824.52	82.38582	(21120107)		
487586.96	3626824.52	82.97197	(21120107)	487606.96
3626824.52	83.35682	(21020701)		
487626.96	3626824.52	88.16790	(21020701)	487646.96
3626824.52	90.82724	(21020701)		
487666.96	3626824.52	93.14733	(21020701)	487686.96
3626824.52	95.99918	(21020701)		
487706.96	3626824.52	98.92914	(21020701)	487726.96
3626824.52	104.12932	(19050905)		
487746.96	3626824.52	108.04169	(19050905)	487766.96
3626824.52	113.19102	(21101502)		
487786.96	3626824.52	116.81880	(21101502)	487806.96
3626824.52	122.09151	(21101502)		
487826.96	3626824.52	129.93716	(20122119)	487846.96

487666.96	3626864.52	93.85723	(21101502)	487686.96
3626864.52	97.99406	(21101502)		
487706.96	3626864.52	100.57348	(21090905)	487726.96
3626864.52	104.91825	(21090905)		
487746.96	3626864.52	110.56397	(20122119)	487766.96
3626864.52	115.35863	(20122119)		
487786.96	3626864.52	122.16035	(19121406)	487806.96
3626864.52	132.87680	(19121406)		
487566.96	3626884.52	84.71093	(19050905)	487586.96
3626884.52	83.84977	(19050905)		
487606.96	3626884.52	85.76546	(21101502)	487626.96
3626884.52	90.13039	(21101502)		
487646.96	3626884.52	92.34541	(21090905)	487666.96
3626884.52	95.07950	(21090905)		
487686.96	3626884.52	98.49720	(20122119)	487706.96
3626884.52	102.27524	(20122119)		
487726.96	3626884.52	107.38459	(20122119)	487746.96
3626884.52	111.13458	(19121406)		
487766.96	3626884.52	121.68369	(19121406)	487786.96
3626884.52	131.54120	(19121406)		
487586.96	3626904.52	84.44162	(21101502)	487606.96
3626904.52	87.55378	(21090905)		
487626.96	3626904.52	93.12581	(21090905)	487646.96
3626904.52	95.27596	(21090905)		
487666.96	3626904.52	99.60298	(20122119)	487686.96
3626904.52	103.11726	(20122119)		
487706.96	3626904.52	103.76170	(20122119)	487726.96
3626904.52	111.93251	(19121406)		
487746.96	3626904.52	120.05041	(19121406)	487766.96
3626904.52	126.42722	(19121406)		
487626.96	3626924.52	94.40835	(20122119)	487646.96
3626924.52	98.68872	(20122119)		
487666.96	3626924.52	101.35994	(20122119)	487686.96
3626924.52	105.48438	(19121406)		
487706.96	3626924.52	112.30119	(19121406)	487726.96
3626924.52	118.27543	(19121406)		
487746.96	3626924.52	121.61399	(19121406)	487646.96
3626944.52	97.51015	(19121406)		
487666.96	3626944.52	104.64435	(19121406)	487686.96
3626944.52	110.48176	(19121406)		
487706.96	3626944.52	115.11568	(19121406)	487726.96
3626944.52	116.97501	(19121406)		
487666.96	3626964.52	106.90103	(19121406)	487686.96
3626964.52	109.01385	(19121406)		
487706.96	3626964.52	114.86886	(19020306)	487686.96
3626984.52	111.58352	(19120404)		
488242.19	3625436.42	58.75116	(19032623)	488262.19
3625436.42	59.62338	(19032623)		
488242.19	3625456.42	60.19817	(19032623)	488262.19
3625456.42	60.63954	(19032623)		

488282.19	3625456.42	54.98387	(20012720)	488302.19
3625456.42	55.98555	(21082704)		
488322.19	3625456.42	57.65478	(21082704)	488242.19
3625476.42	61.68667	(19032623)		
488262.19	3625476.42	61.66257	(19032623)	488282.19
3625476.42	56.27002	(19022722)		
488302.19	3625476.42	57.75926	(21082704)	488322.19
3625476.42	58.50921	(21082704)		
488342.19	3625476.42	57.56555	(21010519)	488362.19
3625476.42	64.64324	(19080704)		
488242.19	3625496.42	63.21871	(19032623)	488262.19
3625496.42	62.68628	(19032623)		
488282.19	3625496.42	57.83284	(19022722)	488302.19
3625496.42	59.49450	(21082704)		
488322.19	3625496.42	59.23169	(21082704)	488342.19
3625496.42	58.29744	(21010519)		
488362.19	3625496.42	67.18132	(19080704)	488382.19
3625496.42	67.64018	(19080704)		
488402.19	3625496.42	59.77643	(20070402)	488422.19
3625496.42	60.73983	(20070402)		
488242.19	3625516.42	64.79846	(19032623)	488262.19
3625516.42	63.71412	(19032623)		
488282.19	3625516.42	59.42680	(19022722)	488302.19
3625516.42	61.25916	(21082704)		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
INCLUDING SOURCE(S): L000001 , L000002
, L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 , L000009 , L000010
, L000011 , L000012 ,

*** 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)		
488322.19	3625516.42	60.22195	(21010519)	488342.19

3625516.42	59.47954	(19021120)			
488362.19	3625516.42		69.60498	(19080704)	488382.19
3625516.42	68.04817	(19080704)			
488402.19	3625516.42		62.09856	(20070402)	488422.19
3625516.42	61.16191	(20070402)			
488442.19	3625516.42		59.49588	(20060224)	488462.19
3625516.42	60.31775	(20021420)			
488482.19	3625516.42		61.46400	(21082705)	488222.19
3625536.42	60.88331	(20070303)			
488242.19	3625536.42		66.42395	(19032623)	488262.19
3625536.42	64.74090	(19032623)			
488282.19	3625536.42		61.04195	(19022722)	488302.19
3625536.42	63.02449	(21082704)			
488322.19	3625536.42		61.98092	(21010519)	488342.19
3625536.42	62.56456	(19080704)			
488362.19	3625536.42		71.86238	(19080704)	488382.19
3625536.42	68.11137	(19080704)			
488402.19	3625536.42		64.19126	(20070402)	488422.19
3625536.42	61.18857	(20070402)			
488442.19	3625536.42		61.70490	(20060224)	488462.19
3625536.42	62.67881	(20021420)			
488482.19	3625536.42		64.19646	(21082705)	488502.19
3625536.42	65.55791	(21110719)			
488522.19	3625536.42		68.56243	(19052822)	488542.19
3625536.42	67.35203	(19052822)			
488222.19	3625556.42		62.40742	(20070303)	488242.19
3625556.42	68.09073	(19032623)			
488262.19	3625556.42		65.75979	(19032623)	488282.19
3625556.42	62.64874	(19022722)			
488302.19	3625556.42		64.70887	(21082704)	488322.19
3625556.42	63.64308	(21010519)			
488342.19	3625556.42		66.07602	(19080704)	488362.19
3625556.42	73.84956	(19080704)			
488382.19	3625556.42		67.74090	(19080704)	488402.19
3625556.42	65.91686	(20070402)			
488422.19	3625556.42		62.50265	(21122219)	488442.19
3625556.42	63.45639	(20060224)			
488462.19	3625556.42		64.53942	(20021420)	488482.19
3625556.42	66.25528	(21082705)			
488502.19	3625556.42		67.74604	(21110719)	488522.19
3625556.42	71.14566	(19052822)			
488542.19	3625556.42		66.09764	(19052822)	488562.19
3625556.42	63.86085	(20021320)			
488202.19	3625576.42		63.39360	(20091504)	488222.19
3625576.42	63.96428	(20070303)			
488242.19	3625576.42		69.80874	(19032623)	488262.19
3625576.42	66.77339	(19032623)			
488282.19	3625576.42		64.25115	(19022722)	488302.19
3625576.42	66.35262	(21082704)			
488322.19	3625576.42		65.22521	(21010519)	488342.19

3625576.42	69.56845	(19080704)			
488362.19	3625576.42	75.54408	(19080704)		488382.19
3625576.42	66.98039	(19080704)			
488402.19	3625576.42	67.31574	(20070402)		488422.19
3625576.42	63.80918	(21122219)			
488442.19	3625576.42	64.71605	(20060224)		488462.19
3625576.42	65.80761	(20021420)			
488482.19	3625576.42	67.51932	(21082705)		488502.19
3625576.42	69.10730	(21110719)			
488522.19	3625576.42	72.65311	(19052822)		488542.19
3625576.42	65.08254	(19032522)			
488562.19	3625576.42	65.52418	(20021320)		488582.19
3625576.42	66.05348	(19091303)			
488122.19	3625596.42	64.25284	(21102122)		488142.19
3625596.42	63.78170	(19082103)			
488162.19	3625596.42	64.89557	(19082103)		488182.19
3625596.42	65.06080	(20113019)			
488202.19	3625596.42	64.95862	(20091504)		488222.19
3625596.42	65.56432	(20070303)			
488242.19	3625596.42	71.57839	(19032623)		488262.19
3625596.42	67.77762	(19032623)			
488282.19	3625596.42	65.84441	(19022722)		488302.19
3625596.42	67.94112	(21082704)			
488322.19	3625596.42	66.71062	(21010519)		488342.19
3625596.42	73.00088	(19080704)			
488362.19	3625596.42	76.90114	(19080704)		488382.19
3625596.42	66.65626	(20070402)			
488402.19	3625596.42	68.32981	(20070402)		488422.19
3625596.42	64.79485	(20060224)			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
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*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M) CONC	CONC	(YYMMDDHH)	X-COORD (M)
3625596.42	488522.19	3625596.42	72.92364	(19052822)	488542.19
		65.81618 (20021320)			
3625596.42	488562.19	3625596.42	66.13523	(19091303)	488582.19
		66.58892 (19091303)			
3625596.42	488602.19	3625596.42	66.44398	(20060721)	488062.19
		62.97403 (20090823)			
3625616.42	488082.19	3625616.42	64.55269	(20021323)	488102.19
		64.63969 (21121021)			
3625616.42	488122.19	3625616.42	65.79751	(21102122)	488142.19
		64.96830 (19082103)			
3625616.42	488162.19	3625616.42	66.51411	(19082103)	488182.19
		66.65979 (20113019)			
3625616.42	488202.19	3625616.42	66.53943	(20091504)	488222.19
		67.21054 (20070303)			
3625616.42	488242.19	3625616.42	73.37922	(19032623)	488262.19
		68.75105 (19032623)			
3625616.42	488282.19	3625616.42	67.42253	(19022722)	488302.19
		69.42105 (21082704)			
3625616.42	488322.19	3625616.42	68.06687	(21010519)	488342.19
		76.35412 (19080704)			
3625616.42	488362.19	3625616.42	77.93361	(19080704)	488382.19
		69.56881 (20070402)			
3625616.42	488402.19	3625616.42	68.65455	(20070402)	488522.19
		71.83332 (19052822)			
3625616.42	488542.19	3625616.42	68.88091	(20021320)	488562.19
		69.34209 (19091303)			
3625616.42	488582.19	3625616.42	68.85057	(20060721)	488602.19
		65.73269 (20060721)			
3625616.42	488062.19	3625636.42	64.11364	(20090823)	488082.19
		65.85645 (20021323)			
3625636.42	488102.19	3625636.42	65.99609	(21121021)	488122.19
		67.35378 (21102122)			
3625636.42	488142.19	3625636.42	66.34835	(19100421)	488162.19
		68.18499 (19082103)			
3625636.42	488182.19	3625636.42	68.31539	(20113019)	488202.19
		68.16639 (20091504)			
3625636.42	488222.19	3625636.42	68.89944	(20070303)	488242.19
		75.21565 (19032623)			
3625636.42	488262.19	3625636.42	69.70397	(19032623)	488282.19
		68.98952 (19022722)			
3625636.42	488302.19	3625636.42	70.82184	(21082704)	488322.19
		69.28253 (21010519)			
3625636.42	488342.19	3625636.42	79.55784	(19080704)	488362.19
		78.55401 (19080704)			
3625636.42	488382.19	3625636.42	72.21208	(20070402)	488522.19
		70.31680 (19032522)			

488542.19	3625636.42	70.66517	(20021320)	488562.19
3625636.42	71.15776	(19091303)		
488582.19	3625636.42	70.70298	(20060721)	488602.19
3625636.42	67.42955	(20081905)		
488622.19	3625636.42	67.52695	(21041522)	488062.19
3625656.42	65.11643	(20090823)		
488082.19	3625656.42	67.09070	(20021323)	488102.19
3625656.42	67.31223	(21121021)		
488122.19	3625656.42	68.91973	(21102122)	488142.19
3625656.42	68.00070	(19100421)		
488162.19	3625656.42	69.91005	(19082103)	488182.19
3625656.42	70.02952	(20113019)		
488202.19	3625656.42	69.83911	(20091504)	488222.19
3625656.42	70.62983	(20070303)		
488242.19	3625656.42	77.08581	(19032623)	488262.19
3625656.42	70.63169	(19032623)		
488282.19	3625656.42	70.53915	(19022722)	488302.19
3625656.42	72.12866	(21082704)		
488322.19	3625656.42	70.33396	(21010519)	488342.19
3625656.42	82.55330	(19080704)		
488362.19	3625656.42	78.71765	(19080704)	488382.19
3625656.42	74.51204	(20070402)		
488522.19	3625656.42	71.20891	(20021320)	488542.19
3625656.42	71.95649	(19091303)		
488582.19	3625656.42	70.92493	(20060721)	488602.19
3625656.42	68.29294	(21041522)		
488622.19	3625656.42	68.90836	(20051104)	488642.19
3625656.42	75.79742	(20102522)		
488062.19	3625676.42	66.10095	(20090823)	488082.19
3625676.42	68.24093	(20021323)		
488102.19	3625676.42	68.55384	(21121021)	488122.19
3625676.42	70.46175	(21102122)		
488142.19	3625676.42	69.66774	(19100421)	488162.19
3625676.42	71.67497	(19082103)		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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)		
488182.19	3625676.42	71.80591	(20113019)	488202.19
3625676.42	71.58881	(20091504)		
488222.19	3625676.42	72.42699	(20070303)	488242.19
3625676.42	79.02146	(19032623)		
488262.19	3625676.42	71.77269	(20012720)	488282.19
3625676.42	72.52585	(19110723)		
488302.19	3625676.42	73.31222	(21082704)	488322.19
3625676.42	74.04633	(19080704)		
488342.19	3625676.42	85.30622	(19080704)	488362.19
3625676.42	78.39908	(19080704)		
488382.19	3625676.42	76.44445	(20070402)	488582.19
3625676.42	71.30980	(20081905)		
488602.19	3625676.42	71.31210	(21041522)	488622.19
3625676.42	72.16276	(20051104)		
488642.19	3625676.42	79.82916	(20102522)	488062.19
3625696.42	67.90419	(20091324)		
488082.19	3625696.42	69.28678	(20021323)	488102.19
3625696.42	69.70973	(21121021)		
488122.19	3625696.42	71.98187	(21102122)	488142.19
3625696.42	71.36496	(19100421)		
488162.19	3625696.42	73.50109	(19082103)	488182.19
3625696.42	73.65780	(20113019)		
488202.19	3625696.42	73.40767	(20091504)	488222.19
3625696.42	74.28526	(20070303)		
488242.19	3625696.42	80.99302	(19032623)	488262.19
3625696.42	73.49285	(20012720)		
488282.19	3625696.42	75.10368	(21082704)	488302.19
3625696.42	75.06282	(21010519)		
488322.19	3625696.42	78.62293	(19080704)	488342.19
3625696.42	87.74511	(19080704)		
488362.19	3625696.42	77.54911	(19080704)	488382.19
3625696.42	77.83410	(20070402)		
488582.19	3625696.42	72.44256	(20081905)	488602.19
3625696.42	72.29714	(21041522)		
488622.19	3625696.42	79.29432	(20102522)	488642.19
3625696.42	80.79833	(20102522)		
488662.19	3625696.42	77.08402	(19082901)	488042.19
3625716.42	68.11456	(19032423)		
488142.19	3625716.42	73.09119	(19100421)	488162.19
3625716.42	75.39485	(19082103)		
488182.19	3625716.42	75.59314	(20113019)	488202.19

3625716.42	75.29513	(20091504)			
488222.19	3625716.42		76.35485	(19032623)	488242.19
3625716.42	82.98957	(19032623)			
488262.19	3625716.42		75.20571	(20012720)	488282.19
3625716.42	77.67592	(21082704)			
488302.19	3625716.42		77.44605	(21010519)	488322.19
3625716.42	83.20344	(19080704)			
488342.19	3625716.42		89.80592	(19080704)	488362.19
3625716.42	78.87397	(20070402)			
488382.19	3625716.42		78.57286	(20070402)	488602.19
3625716.42	76.18677	(20051104)			
488622.19	3625716.42		84.28256	(20102522)	488642.19
3625716.42	78.39673	(20102522)			
488662.19	3625716.42		82.27462	(19082901)	488682.19
3625716.42	77.03834	(19082901)			
488022.19	3625736.42		68.50248	(20111904)	488042.19
3625736.42	69.18260	(19032423)			
488182.19	3625736.42		77.61580	(20113019)	488202.19
3625736.42	77.29097	(20091504)			
488222.19	3625736.42		78.88047	(19032623)	488242.19
3625736.42	85.06621	(19032623)			
488262.19	3625736.42		77.24066	(21080305)	488282.19
3625736.42	80.29990	(21082704)			
488302.19	3625736.42		79.79523	(21010519)	488322.19
3625736.42	87.73386	(19080704)			
488362.19	3625736.42		82.07895	(20070402)	488382.19
3625736.42	78.85414	(21122219)			
488402.19	3625736.42		80.08735	(20060224)	488602.19
3625736.42	83.05343	(20102522)			
488622.19	3625736.42		85.87147	(20102522)	488642.19
3625736.42	81.61774	(19082901)			
488662.19	3625736.42		83.73472	(19082901)	488682.19
3625736.42	71.44359	(20091521)			
488702.19	3625736.42		72.38356	(21103121)	488002.19
3625756.42	68.34379	(19110122)			
488022.19	3625756.42		70.41396	(20111904)	488182.19
3625756.42	79.72478	(20113019)			
488202.19	3625756.42		79.37622	(20091504)	488222.19
3625756.42	81.50953	(19032623)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***

INCLUDING SOURCE(S): L000001 , L000002

, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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)		
488242.19	3625756.42	87.18421	(19032623)	488262.19
3625756.42	79.83959	(21080305)		
488282.19	3625756.42	82.87928	(21082704)	488382.19
3625756.42	81.08988	(21122219)		
488602.19	3625756.42	89.10680	(20102522)	488622.19
3625756.42	83.63311	(20102522)		
488642.19	3625756.42	87.18985	(19082901)	488662.19
3625756.42	81.02896	(19082901)		
488682.19	3625756.42	75.10862	(21103121)	488702.19
3625756.42	74.17962	(20050620)		
487982.19	3625776.42	68.52237	(21120123)	488002.19
3625776.42	69.54979	(19110122)		
488222.19	3625776.42	84.23150	(19032623)	488242.19
3625776.42	89.31989	(19032623)		
488262.19	3625776.42	82.46992	(21080305)	488622.19
3625776.42	86.55050	(19082901)		
488642.19	3625776.42	88.56247	(19082901)	488662.19
3625776.42	75.57795	(21103121)		
488682.19	3625776.42	76.20554	(21103121)	488702.19
3625776.42	75.29363	(20050620)		
488722.19	3625776.42	72.68339	(21091802)	487982.19
3625796.42	69.01926	(21120123)		
488222.19	3625796.42	87.07098	(19032623)	488242.19
3625796.42	91.50697	(19032623)		
488262.19	3625796.42	85.14434	(21080305)	488622.19
3625796.42	92.27739	(19082901)		
488642.19	3625796.42	85.27329	(19082901)	488662.19
3625796.42	79.80004	(21103121)		
488682.19	3625796.42	78.83828	(20050620)	488702.19
3625796.42	75.86275	(21091802)		
488722.19	3625796.42	76.36289	(19100221)	488742.19
3625796.42	78.35519	(21081502)		
488222.19	3625816.42	90.02930	(19032623)	488242.19
3625816.42	93.73420	(19032623)		
488262.19	3625816.42	87.83659	(21080305)	488642.19
3625816.42	80.90801	(21103121)		

488662.19	3625816.42	80.15780	(21103121)	488682.19
3625816.42	78.76059 (20050620)			
488702.19	3625816.42	77.94535	(19100221)	488722.19
3625816.42	79.76721 (21081502)			
488742.19	3625816.42	78.60610	(21081502)	488762.19
3625816.42	75.86051 (19072703)			
488202.19	3625836.42	88.39000	(20091504)	488222.19
3625836.42	93.09945 (19032623)			
488242.19	3625836.42	95.98539	(19032623)	488662.19
3625836.42	83.58786 (20050620)			
488682.19	3625836.42	80.34416	(21091802)	488702.19
3625836.42	80.81777 (19100221)			
488722.19	3625836.42	82.88380	(21081502)	488742.19
3625836.42	79.67565 (19072703)			
488762.19	3625836.42	74.88107	(19040321)	488782.19
3625836.42	75.82941 (20112002)			
488202.19	3625856.42	90.93995	(20091504)	488222.19
3625856.42	96.34260 (19032623)			
488242.19	3625856.42	98.04816	(19032623)	488682.19
3625856.42	83.75754 (19100221)			
488702.19	3625856.42	85.86549	(21081502)	488722.19
3625856.42	82.42779 (19072703)			
488742.19	3625856.42	77.37671	(19040321)	488762.19
3625856.42	78.16578 (20112002)			
488782.19	3625856.42	74.66990	(20112002)	488802.19
3625856.42	72.37814 (19101421)			
488822.19	3625856.42	70.87051	(19101421)	488202.19
3625876.42	93.70901 (20091504)			
488222.19	3625876.42	99.75589	(19032623)	488662.19
3625876.42	84.98964 (19100221)			
488682.19	3625876.42	87.27425	(21081502)	488702.19
3625876.42	86.53010 (21081502)			
488722.19	3625876.42	82.81304	(19072703)	488742.19
3625876.42	79.79795 (20112002)			
488762.19	3625876.42	78.97626	(20112002)	488782.19
3625876.42	75.77685 (19100520)			
488802.19	3625876.42	74.11742	(19101421)	488822.19
3625876.42	73.02657 (20121618)			
488842.19	3625876.42	68.40208	(21110505)	488202.19
3625896.42	96.77823 (20091504)			
488222.19	3625896.42	103.35973	(19032623)	488642.19
3625896.42	89.04575 (21091802)			
488662.19	3625896.42	89.44175	(19100221)	488682.19
3625896.42	91.38955 (21081502)			

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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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)		
488702.19	3625896.42	87.45656	(19072703)	488722.19
3625896.42	82.00869	(19040321)		
488742.19	3625896.42	82.86410	(20112002)	488762.19
3625896.42	79.20946	(19100520)		
488782.19	3625896.42	77.21347	(19101421)	488802.19
3625896.42	75.76504	(20121618)		
488822.19	3625896.42	70.80012	(21110505)	488842.19
3625896.42	72.31118	(21073103)		
488862.19	3625896.42	69.23073	(21073103)	488882.19
3625896.42	66.95560	(20081323)		
488902.19	3625896.42	66.49366	(21092305)	488202.19
3625916.42	99.88367	(20091504)		
488222.19	3625916.42	107.11480	(19032623)	488642.19
3625916.42	92.25198	(19100221)		
488662.19	3625916.42	94.67727	(21081502)	488682.19
3625916.42	90.84709	(19072703)		
488702.19	3625916.42	85.35597	(19040321)	488762.19
3625916.42	80.04031	(19101421)		
488782.19	3625916.42	78.33745	(20121618)	488802.19
3625916.42	73.82388	(20121618)		
488822.19	3625916.42	74.48865	(21073103)	488842.19
3625916.42	72.16214	(21073103)		
488862.19	3625916.42	69.50912	(20081323)	488882.19
3625916.42	68.78076	(21092305)		
488902.19	3625916.42	66.99489	(19101420)	488922.19
3625916.42	65.02025	(21040420)		
488942.19	3625916.42	66.03050	(19042003)	488222.19
3625936.42	111.00731	(19032623)		
488622.19	3625936.42	94.86380	(21091802)	488642.19
3625936.42	95.95662	(21081502)		
488662.19	3625936.42	95.90607	(21081502)	488682.19

3625936.42	90.90242	(19072703)			
488782.19	3625936.42		77.74345	(20121618)	488802.19
3625936.42	76.65982	(21073103)			
488822.19	3625936.42		75.19609	(21073103)	488842.19
3625936.42	72.18026	(20081323)			
488862.19	3625936.42		71.17236	(21092305)	488882.19
3625936.42	69.23099	(19101420)			
488902.19	3625936.42		67.10126	(21040420)	488922.19
3625936.42	68.19876	(19042003)			
488942.19	3625936.42		66.88555	(19042003)	488962.19
3625936.42	63.15321	(20041924)			
488982.19	3625936.42		61.23686	(21091202)	489002.19
3625936.42	59.37123	(21120219)			
488602.19	3625956.42		98.59992	(21091802)	488622.19
3625956.42	99.44633	(19100221)			
488642.19	3625956.42		101.41359	(21081502)	488662.19
3625956.42	96.52365	(19072703)			
488782.19	3625956.42		78.76613	(21073103)	488802.19
3625956.42	78.32297	(21073103)			
488822.19	3625956.42		74.98356	(20081323)	488842.19
3625956.42	73.69781	(21092305)			
488862.19	3625956.42		71.59840	(19101420)	488882.19
3625956.42	69.29742	(21040420)			
488902.19	3625956.42		70.47929	(19042003)	488922.19
3625956.42	68.89900	(19042003)			
488942.19	3625956.42		65.05821	(20041924)	488962.19
3625956.42	63.12483	(21091202)			
488982.19	3625956.42		61.37594	(21120219)	489002.19
3625956.42	60.20995	(21120219)			
489022.19	3625956.42		60.11638	(21070304)	489042.19
3625956.42	57.44105	(21070304)			
489062.19	3625956.42		57.01969	(19030322)	489082.19
3625956.42	57.48089	(19030322)			
488622.19	3625976.42		104.83622	(21081502)	488802.19
3625976.42	77.91895	(20081323)			
488822.19	3625976.42		76.34983	(21092305)	488842.19
3625976.42	74.09088	(19101420)			
488862.19	3625976.42		71.60341	(21040420)	488882.19
3625976.42	72.87065	(19042003)			
488902.19	3625976.42		70.99319	(19042003)	488922.19
3625976.42	67.03338	(20041924)			
488942.19	3625976.42		65.06893	(21091202)	488962.19
3625976.42	63.40302	(21120219)			
488982.19	3625976.42		62.16679	(21070304)	489002.19
3625976.42	61.75015	(21070304)			
489022.19	3625976.42		58.92308	(20101020)	489042.19
3625976.42	59.19721	(19030322)			
489062.19	3625976.42		58.89482	(19030322)	489082.19
3625976.42	56.00762	(19030322)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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)		
489102.19	3625976.42	53.50966	(20012621)	489122.19
3625976.42	53.42909	(21020920)		
488802.19	3625996.42	79.15026	(21092305)	488822.19
3625996.42	76.75489	(19101420)		
488842.19	3625996.42	74.04611	(21040420)	488922.19
3625996.42	67.03770	(21091202)		
488942.19	3625996.42	65.44439	(21120219)	488962.19
3625996.42	64.41812	(21070304)		
488982.19	3625996.42	63.33591	(21070304)	489002.19
3625996.42	60.69543	(20101020)		
489022.19	3625996.42	61.26391	(19030322)	489042.19
3625996.42	60.14165	(19030322)		
489062.19	3625996.42	56.41848	(19030322)	489082.19
3625996.42	55.45989	(21020920)		
489102.19	3625996.42	54.73527	(21020920)	489122.19
3625996.42	53.78895	(20062624)		
489142.19	3625996.42	52.64209	(20062624)	488802.19
3626016.42	79.57118	(19101420)		
488822.19	3626016.42	76.69406	(21040420)	488842.19
3626016.42	78.07982	(19042003)		
488982.19	3626016.42	62.37676	(20101020)	489002.19
3626016.42	63.18708	(19030322)		
489022.19	3626016.42	61.19266	(19030322)	489042.19
3626016.42	57.84884	(20012621)		
489062.19	3626016.42	57.30668	(21020920)	489082.19
3626016.42	55.80321	(21020920)		

489102.19	3626016.42	55.28893	(20062624)	489122.19
3626016.42	53.33682	(20062624)		
489142.19	3626016.42	51.81209	(20082724)	488782.19
3626036.42	82.54350	(19101420)		
488802.19	3626036.42	79.46206	(21040420)	488822.19
3626036.42	80.96461	(19042003)		
488842.19	3626036.42	77.95396	(19042003)	489042.19
3626036.42	58.94598	(21020920)		
489062.19	3626036.42	57.52993	(20062624)	489082.19
3626036.42	56.50029	(20062624)		
489102.19	3626036.42	54.04828	(20082724)	489122.19
3626036.42	54.03616	(19050724)		
489142.19	3626036.42	53.98047	(19050724)	488782.19
3626056.42	82.37832	(21040420)		
488802.19	3626056.42	83.97712	(19042003)	488822.19
3626056.42	80.56931	(19042003)		
488842.19	3626056.42	75.75121	(20041924)	489042.19
3626056.42	59.31383	(20062624)		
489062.19	3626056.42	57.40459	(20062624)	489082.19
3626056.42	55.37726	(20082724)		
489102.19	3626056.42	55.98251	(19050724)	489122.19
3626056.42	55.02400	(19050724)		
489142.19	3626056.42	54.44597	(19042005)	489162.19
3626056.42	53.21209	(19042005)		
488782.19	3626076.42	87.03981	(19042003)	488802.19
3626076.42	83.27331	(19042003)		
488822.19	3626076.42	78.20697	(20041924)	488842.19
3626076.42	75.49543	(21091202)		
488862.19	3626076.42	73.75394	(21070304)	489062.19
3626076.42	57.74918	(19050724)		
489082.19	3626076.42	57.51975	(19050724)	489102.19
3626076.42	56.45532	(19042005)		
489122.19	3626076.42	55.72999	(19042005)	489142.19
3626076.42	53.60951	(19042005)		
489162.19	3626076.42	52.02741	(20041204)	488782.19
3626096.42	85.97109	(19042003)		
488802.19	3626096.42	80.74534	(21091202)	488822.19
3626096.42	78.10987	(19082501)		
488842.19	3626096.42	76.84158	(21070304)	488862.19
3626096.42	75.38813	(21070304)		
489062.19	3626096.42	58.59452	(19050724)	489082.19
3626096.42	58.20400	(19042005)		
489102.19	3626096.42	56.52511	(19042005)	489122.19
3626096.42	54.24011	(20041204)		
489142.19	3626096.42	52.56478	(20031420)	489162.19
3626096.42	51.95211	(20031420)		
488782.19	3626116.42	83.79373	(21091202)	488802.19
3626116.42	81.15286	(19082501)		
488822.19	3626116.42	79.88668	(21070304)	488842.19
3626116.42	77.47196	(21070304)		

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488862.19 3626116.42 74.64691 (19030322) 489062.19
3626116.42 59.43185 (19042005)
489082.19 3626116.42 56.78852 (19042005) 489102.19
3626116.42 55.12140 (20041204)
*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
489122.19	3626116.42	54.16534 (20031420)	489142.19
3626116.42	52.67639 (20031420)		
489162.19	3626116.42	50.30124 (20102421)	489182.19
3626116.42	49.01905 (20090222)		
488782.19	3626136.42	84.25902 (19082501)	488802.19
3626136.42	82.93583 (21070304)		
488822.19	3626136.42	79.44771 (21070304)	488842.19
3626136.42	77.65920 (19030322)		
488862.19	3626136.42	76.03802 (19030322)	489082.19
3626136.42	56.42385 (20031420)		
489102.19	3626136.42	55.17837 (20031420)	489122.19
3626136.42	52.79774 (20031420)		
489142.19	3626136.42	51.14537 (20102421)	489162.19
3626136.42	50.64590 (20090222)		
489182.19	3626136.42	49.45565 (20090222)	488782.19
3626156.42	85.96422 (21070304)		
488802.19	3626156.42	81.75855 (20101020)	488822.19
3626156.42	80.49610 (19030322)		
488842.19	3626156.42	77.69302 (19030322)	488862.19
3626156.42	74.56808 (21020920)		
488882.19	3626156.42	73.13842 (21020920)	489102.19

3626156.42	53.49897	(20102421)			
489122.19	3626156.42		52.77858	(20090222)	489142.19
3626156.42	51.61235	(20090222)			
489162.19	3626156.42		49.91353	(20072623)	489182.19
3626156.42	49.32168	(19050723)			
488782.19	3626176.42		84.61080	(20101020)	488802.19
3626176.42	83.18155	(19030322)			
488822.19	3626176.42		79.09640	(19030322)	488842.19
3626176.42	77.48932	(21020920)			
488862.19	3626176.42		74.84197	(21020920)	488882.19
3626176.42	72.90855	(20062624)			
489122.19	3626176.42		51.90528	(20090222)	489142.19
3626176.42	51.22705	(19050723)			
489162.19	3626176.42		51.19112	(19050723)	489182.19
3626176.42	50.43875	(19050723)			
488782.19	3626196.42		85.63219	(19030322)	488802.19
3626196.42	81.27629	(20012621)			
488822.19	3626196.42		80.08798	(21020920)	488842.19
3626196.42	77.28093	(20062624)			
488862.19	3626196.42		74.31677	(20062624)	488882.19
3626196.42	71.60737	(19050724)			
488902.19	3626196.42		70.60932	(19050724)	489142.19
3626196.42	52.31037	(19050723)			
489162.19	3626196.42		51.13742	(19042004)	489182.19
3626196.42	49.85419	(19042004)			
489202.19	3626196.42		47.98402	(19042004)	488782.19
3626216.42	84.65984	(21020920)			
488802.19	3626216.42		82.37646	(21020920)	488822.19
3626216.42	79.51771	(20062624)			
488842.19	3626216.42		75.56858	(20102322)	488862.19
3626216.42	74.09747	(19050724)			
488882.19	3626216.42		73.48663	(19042005)	488902.19
3626216.42	71.86610	(19042005)			
489142.19	3626216.42		51.83439	(19042004)	489162.19
3626216.42	49.77866	(19042004)			
489182.19	3626216.42		48.58853	(21071622)	489202.19
3626216.42	47.50855	(21100604)			
489222.19	3626216.42		47.01545	(21100604)	489242.19
3626216.42	46.06862	(21100604)			
489262.19	3626216.42		44.72248	(21072324)	488782.19
3626236.42	84.29427	(20062624)			
488802.19	3626236.42		81.32607	(20062624)	488822.19
3626236.42	77.47542	(20102322)			
488842.19	3626236.42		76.73556	(19042005)	488862.19
3626236.42	75.77847	(19042005)			
488882.19	3626236.42		72.91625	(19042005)	488902.19
3626236.42	69.85557	(20120918)			
489142.19	3626236.42		50.46417	(21071622)	489162.19
3626236.42	49.56815	(21100604)			
489182.19	3626236.42		48.84194	(21100604)	489202.19

3626236.42 47.64994 (21100604)
 489222.19 3626236.42 46.46595 (21072324) 489242.19
 3626236.42 45.66037 (21072324)
 489262.19 3626236.42 45.04848 (19092701) 488782.19
 3626256.42 82.75755 (20102322)
 488802.19 3626256.42 80.00091 (19050724) 488822.19
 3626256.42 79.65410 (19042005)
 488842.19 3626256.42 77.44649 (19042005) 488862.19
 3626256.42 73.91887 (20120918)

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*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: PASS ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 ,

*** 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)		
488882.19	3626256.42	71.40844	(20031420)	488902.19
3626256.42	68.99496 (20031420)			
488922.19	3626256.42	65.93884	(19083123)	489142.19
3626256.42	50.72273 (21100604)			
489162.19	3626256.42	49.19946	(21100604)	489222.19
3626256.42	46.91111 (19092701)			
489242.19	3626256.42	46.12470	(19092701)	489262.19
3626256.42	44.96821 (19092701)			
488882.19	3626276.42	69.60333	(19083123)	488902.19
3626276.42	68.01894 (20090222)			
488922.19	3626276.42	65.91341	(20090222)	489142.19
3626276.42	49.93472 (21072324)			
489162.19	3626276.42	49.27642	(19092701)	489242.19
3626276.42	46.04795 (19060822)			
489262.19	3626276.42	45.00519	(19060822)	488882.19
3626296.42	69.43147 (20090222)			

488902.19	3626296.42	66.97664	(21083022)	489262.19
3626296.42	44.63044	(20072422)		
489282.19	3626296.42	43.94006	(19050722)	488902.19
3626316.42	68.10028	(19042004)		
489282.19	3626316.42	43.56779	(19050722)	489302.19
3626316.42	42.52198	(20081822)		
488902.19	3626336.42	66.89128	(19042004)	488922.19
3626336.42	63.52070	(21100604)		
489302.19	3626336.42	42.70710	(21070101)	489322.19
3626336.42	42.00652	(21070101)		
488922.19	3626356.42	63.57731	(21100604)	488942.19
3626356.42	61.36465	(19092701)		
489322.19	3626356.42	41.98406	(19073123)	488942.19
3626376.42	61.74824	(19092701)		
488962.19	3626376.42	60.23720	(19060822)	489322.19
3626376.42	42.05061	(19072303)		
489342.19	3626376.42	41.26526	(19072303)	488962.19
3626396.42	59.69531	(19083024)		
489322.19	3626396.42	41.82438	(19043020)	489342.19
3626396.42	41.10760	(19043020)		
489342.19	3626416.42	40.60286	(21072101)	489342.19
3626436.42	40.22231	(21062324)		
488086.20	3626768.13	246.43140	(19120716)	488077.21
3626746.82	221.20230	(19120716)		
488075.79	3626778.08	247.71398	(21040602)	488002.86
3626694.73	145.12888	(19042203)		
487535.35	3626865.62	83.85833	(21020701)	487693.75
3626992.77	120.49002	(19120404)		
487795.04	3626883.94	134.17969	(19121406)	487871.55
3626830.06	156.18789	(19121406)		
487958.83	3626811.74	203.97261	(20010904)	488041.80
3626794.50	309.03522	(19011707)		
488094.61	3626765.41	597.84336	(19120716)	488046.12
3626714.76	249.56292	(19121406)		
488007.32	3626665.19	176.11742	(21112423)	487941.59
3626599.46	131.00732	(19040823)		
487911.42	3626574.68	126.78517	(19040823)	487815.52
3626540.19	96.56096	(19040823)		
487709.91	3626504.63	68.95854	(19021102)	487555.82
3626439.98	59.47821	(19021102)		
487490.09	3626487.39	61.81310	(19040823)	487428.67
3626556.36	57.32772	(19022001)		
487358.63	3626713.68	65.52772	(20012319)	487522.42
3626827.90	77.29830	(21120107)		
488235.45	3625424.52	55.63608	(19032623)	488562.08
3625540.85	61.77999	(20021320)		
488747.03	3625794.41	78.04872	(21081502)	488857.40
3625879.42	70.45324	(21073103)		
489054.28	3625949.52	56.42979	(20101020)	489134.82
3625964.44	52.53361	(21020920)		

489178.07	3626085.25	51.09993	(20031420)	489203.43
3626198.60	47.54886 (19042004)			
489260.10	3626203.08	45.42611	(21100604)	489276.51
3626217.99	44.34396 (21072324)			
489267.56	3626265.72	45.05430	(19060822)	489336.17
3626346.26	41.41164 (19073123)			
489361.53	3626432.77	39.58735	(21062324)	489331.70
3626449.18	40.69125 (20012420)			
489309.32	3626361.18	42.34125	(19073123)	489258.61
3626298.53	44.70309 (20072422)			
489190.00	3626228.43	48.41925	(21100604)	489149.73
3626317.92	49.46218 (19060822)			
489130.34	3626250.81	51.12332	(21100604)	489137.80
3626216.50	52.19883 (19042004)			

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Parkway Bridge Project EIR\ *** 12/21/23
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: PASS ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 ,

*** 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)		
489054.28	3626106.13	59.49878	(19042005)	489036.38
3626036.03	59.23357 (21020920)			
488921.53	3625997.25	67.09439	(21091202)	488846.96
3625983.83	73.15419 (19101420)			
488872.31	3626110.61	74.00794	(19030322)	488902.14
3626194.13	70.62878 (19050724)			
488931.97	3626270.20	65.23758	(20090222)	488908.77
3626298.76	66.03816 (21083022)			
488936.81	3626348.34	62.61304	(21100604)	488971.36
3626378.01	59.56686 (19060822)			
488968.11	3626409.72	58.20971	(21081521)	488903.08

3626355.25	65.36888	(21100604)			
488864.87	3626256.49		73.55672	(20120918)	488763.27
3626259.34	86.67430	(20062624)			
488787.87	3625962.95		80.44327	(21073103)	488735.67
3625906.27	84.05735	(20112002)			
488620.82	3625988.31		107.18456	(21081502)	488588.00
3625956.98	102.39480	(20050620)			
488671.53	3625861.52		82.96315	(19100221)	488629.77
3625813.79	89.75986	(19082901)			
488588.00	3625746.67		79.49307	(20051104)	488571.59
3625648.23	71.95161	(20060721)			
488516.41	3625666.13		72.38350	(19032522)	488522.37
3625581.11	72.79885	(19052822)			
488431.39	3625576.63		64.42211	(20060224)	488447.79
3625615.41	69.17322	(20021420)			
488388.13	3625616.90		70.69432	(20070402)	488398.57
3625706.40	75.06067	(20060224)			
488406.03	3625745.18		80.62729	(20021420)	488392.60
3625776.50	84.63238	(20060224)			
488350.84	3625722.81		86.19831	(19080704)	488279.24
3625769.05	83.99144	(21082704)			
488282.23	3625807.83		88.88813	(21082704)	488246.43
3625851.08	94.89167	(19032623)			
488230.02	3625946.54		115.06630	(19032623)	488188.26
3625924.17	99.98115	(20113019)			
488213.62	3625757.11		79.26183	(20091504)	488170.36
3625779.49	81.80869	(20113019)			
488170.36	3625733.25		77.37507	(20113019)	488077.88
3625697.45	68.98086	(20090823)			
487973.47	3625822.74		69.63758	(19041502)	487955.57
3625809.32	67.87047	(19111401)			
488058.49	3625678.06		66.54806	(20091324)	488057.00
3625618.40	62.48899	(20090823)			
488107.71	3625596.02		63.23029	(21102122)	488185.27
3625576.63	62.86487	(20050606)			
488228.53	3625528.90		61.12792	(20070303)	488233.01
3625482.66	59.01960	(19032623)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
, L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022

, L0000023 , L0000024 ,

*** 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)		
487526.96	3626464.52	57.30789	(19021102)	487546.96
3626464.52	57.96440	(19021102)		
487566.96	3626464.52	57.97216	(19021102)	487586.96
3626464.52	59.84927	(19021102)		
487606.96	3626464.52	59.34496	(19021102)	487506.96
3626484.52	59.55869	(19040823)		
487526.96	3626484.52	60.71906	(19040823)	487546.96
3626484.52	59.29483	(19040823)		
487566.96	3626484.52	59.13648	(19040823)	487586.96
3626484.52	60.19483	(19040823)		
487606.96	3626484.52	58.95881	(19040823)	487626.96
3626484.52	60.40055	(19021102)		
487646.96	3626484.52	62.66129	(19021102)	487486.96
3626504.52	63.40283	(20122123)		
487506.96	3626504.52	65.04830	(20122123)	487526.96
3626504.52	65.55319	(20122123)		
487546.96	3626504.52	59.66619	(19040823)	487566.96
3626504.52	59.62806	(19040823)		
487586.96	3626504.52	61.37920	(19040823)	487606.96
3626504.52	60.43308	(19040823)		
487626.96	3626504.52	61.90082	(19040823)	487646.96
3626504.52	63.71908	(19040823)		
487666.96	3626504.52	65.43704	(19040823)	487686.96
3626504.52	64.35460	(19040823)		
487706.96	3626504.52	62.74092	(19021102)	487466.96
3626524.52	63.16898	(20122123)		
487486.96	3626524.52	65.15409	(20122123)	487506.96
3626524.52	70.56514	(20122123)		
487526.96	3626524.52	69.50129	(20122123)	487546.96
3626524.52	59.48428	(20122123)		
487566.96	3626524.52	57.86107	(19040823)	487586.96
3626524.52	60.17893	(19040823)		
487606.96	3626524.52	62.30580	(19040823)	487626.96
3626524.52	61.89018	(19040823)		
487646.96	3626524.52	64.39720	(19040823)	487666.96
3626524.52	66.64753	(19040823)		
487686.96	3626524.52	65.87391	(19040823)	487706.96
3626524.52	66.72486	(19040823)		

487726.96	3626524.52	69.37798	(19040823)	487746.96
3626524.52	77.97921	(19040823)		
487766.96	3626524.52	81.44319	(19040823)	487446.96
3626544.52	65.78255	(20122123)		
487466.96	3626544.52	66.10508	(20122123)	487486.96
3626544.52	67.92013	(20122123)		
487506.96	3626544.52	69.08605	(20122123)	487526.96
3626544.52	64.69232	(20122123)		
487546.96	3626544.52	66.27702	(20122123)	487566.96
3626544.52	54.49690	(19040823)		
487586.96	3626544.52	57.28170	(19040823)	487606.96
3626544.52	64.29752	(20122123)		
487626.96	3626544.52	63.11367	(19040823)	487646.96
3626544.52	62.99801	(19040823)		
487666.96	3626544.52	65.61159	(19040823)	487686.96
3626544.52	65.37209	(19040823)		
487706.96	3626544.52	71.94985	(19040823)	487726.96
3626544.52	75.94286	(19040823)		
487746.96	3626544.52	79.81830	(19040823)	487766.96
3626544.52	83.88444	(19040823)		
487786.96	3626544.52	88.50060	(19040823)	487806.96
3626544.52	95.94059	(19040823)		
487826.96	3626544.52	96.77537	(19040823)	487426.96
3626564.52	64.25373	(20122123)		
487446.96	3626564.52	62.16339	(20122123)	487466.96
3626564.52	63.36578	(20122123)		
487486.96	3626564.52	64.21751	(20122123)	487506.96
3626564.52	64.45300	(20122123)		
487526.96	3626564.52	62.91133	(20122123)	487546.96
3626564.52	55.66878	(19022001)		
487566.96	3626564.52	52.65828	(21012122)	487586.96
3626564.52	54.92122	(19022001)		
487606.96	3626564.52	72.38662	(20122123)	487626.96
3626564.52	58.79699	(19022001)		
487646.96	3626564.52	61.62635	(19040823)	487666.96
3626564.52	62.17115	(19040823)		
487686.96	3626564.52	65.58850	(19040823)	487706.96
3626564.52	69.26398	(19040823)		
487726.96	3626564.52	73.49048	(19040823)	487746.96
3626564.52	77.66699	(19040823)		
487766.96	3626564.52	82.06929	(19040823)	487786.96
3626564.52	91.26237	(19040823)		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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)		
487806.96	3626564.52	96.48851	(19040823)	487826.96
3626564.52	101.48483	(19040823)		
487846.96	3626564.52	106.74269	(19040823)	487866.96
3626564.52	112.67009	(19040823)		
487426.96	3626584.52	60.71670	(21012122)	487446.96
3626584.52	61.28396	(21012122)		
487466.96	3626584.52	62.25407	(21012122)	487486.96
3626584.52	62.03788	(21012122)		
487506.96	3626584.52	62.54957	(21012122)	487526.96
3626584.52	64.62644	(21012122)		
487546.96	3626584.52	55.08554	(21012122)	487566.96
3626584.52	55.63180	(21012122)		
487586.96	3626584.52	58.33052	(21012122)	487606.96
3626584.52	66.72571	(21012122)		
487626.96	3626584.52	61.64706	(21012122)	487646.96
3626584.52	63.68274	(21012122)		
487666.96	3626584.52	66.59750	(21012122)	487686.96
3626584.52	69.28733	(21012122)		
487706.96	3626584.52	67.46725	(21012122)	487726.96
3626584.52	74.31948	(21012122)		
487746.96	3626584.52	77.09358	(21012122)	487766.96
3626584.52	80.64727	(19040823)		
487786.96	3626584.52	86.09497	(19040823)	487806.96
3626584.52	91.74284	(19040823)		
487826.96	3626584.52	97.67979	(19040823)	487846.96
3626584.52	104.08041	(19040823)		
487866.96	3626584.52	112.85497	(20122123)	487886.96
3626584.52	122.36987	(20122123)		
487906.96	3626584.52	127.45982	(20122123)	487426.96
3626604.52	63.39425	(21012122)		
487446.96	3626604.52	64.72931	(21012122)	487466.96
3626604.52	65.95188	(21012122)		
487486.96	3626604.52	65.69645	(21012122)	487506.96

3626604.52	66.30028	(21012122)			
487526.96	3626604.52	67.76146	(21012122)		487546.96
3626604.52	61.08864	(21012122)			
487566.96	3626604.52	56.86529	(21012122)		487586.96
3626604.52	55.14880	(21012122)			
487606.96	3626604.52	61.12438	(21012122)		487626.96
3626604.52	64.16228	(21012122)			
487646.96	3626604.52	67.25996	(21012122)		487666.96
3626604.52	70.36538	(21012122)			
487686.96	3626604.52	73.25926	(21012122)		487706.96
3626604.52	75.56568	(21012122)			
487726.96	3626604.52	79.59537	(21012122)		487746.96
3626604.52	83.57769	(21012122)			
487766.96	3626604.52	87.30226	(21012122)		487786.96
3626604.52	90.73008	(21012122)			
487806.96	3626604.52	97.47831	(21012122)		487826.96
3626604.52	105.20158	(21012122)			
487846.96	3626604.52	107.76612	(21012122)		487866.96
3626604.52	113.42208	(21012122)			
487886.96	3626604.52	119.09900	(21012122)		487906.96
3626604.52	124.93060	(21012122)			
487926.96	3626604.52	131.73052	(21012122)		487406.96
3626624.52	63.36094	(21012122)			
487426.96	3626624.52	64.29647	(21012122)		487446.96
3626624.52	65.87414	(21012122)			
487466.96	3626624.52	66.91677	(21012122)		487486.96
3626624.52	67.90793	(21012122)			
487506.96	3626624.52	67.64581	(21012122)		487526.96
3626624.52	68.68924	(21012122)			
487546.96	3626624.52	65.29240	(21012122)		487566.96
3626624.52	55.30902	(21012122)			
487586.96	3626624.52	53.68645	(19020205)		487606.96
3626624.52	55.99319	(19020205)			
487626.96	3626624.52	62.53249	(21012122)		487646.96
3626624.52	66.39671	(21012122)			
487666.96	3626624.52	69.83739	(21012122)		487686.96
3626624.52	73.00599	(21012122)			
487706.96	3626624.52	76.37914	(21012122)		487726.96
3626624.52	80.16019	(21012122)			
487746.96	3626624.52	84.14003	(21012122)		487766.96
3626624.52	88.40545	(21012122)			
487786.96	3626624.52	93.15410	(21012122)		487806.96
3626624.52	109.35209	(21012122)			
487826.96	3626624.52	114.86748	(21012122)		487846.96
3626624.52	119.48034	(21012122)			
487866.96	3626624.52	115.97993	(21012122)		487886.96
3626624.52	122.46702	(21012122)			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***
INCLUDING SOURCE(S): L000013 , L000014
, L000015 , L000016 , L000017 ,
L000018 , L000019 , L000020 , L000021 , L000022
, L000023 , L000024 ,

*** 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)		
487906.96	3626624.52	128.74449	(21012122)	487926.96
3626624.52	136.66202	(21012122)		
487946.96	3626624.52	146.58631	(21012122)	487406.96
3626644.52	62.72423	(20101601)		
487426.96	3626644.52	64.21505	(20101601)	487446.96
3626644.52	65.43095	(20101601)		
487466.96	3626644.52	65.79557	(20101601)	487486.96
3626644.52	67.13260	(20101601)		
487506.96	3626644.52	68.75070	(20101601)	487526.96
3626644.52	68.04452	(20101601)		
487546.96	3626644.52	58.57506	(20101601)	487566.96
3626644.52	52.46880	(21102401)		
487586.96	3626644.52	53.57969	(21102401)	487606.96
3626644.52	56.05651	(21102401)		
487626.96	3626644.52	58.61693	(21102401)	487646.96
3626644.52	64.80725	(21102401)		
487666.96	3626644.52	68.44494	(21102401)	487686.96
3626644.52	71.66942	(21102401)		
487706.96	3626644.52	77.85011	(20101601)	487726.96
3626644.52	81.53406	(20101601)		
487746.96	3626644.52	82.12259	(21102401)	487766.96
3626644.52	86.23627	(21102401)		
487786.96	3626644.52	106.37797	(21012122)	487806.96
3626644.52	111.41956	(21012122)		
487826.96	3626644.52	118.05770	(21012122)	487846.96
3626644.52	122.54739	(21012122)		
487866.96	3626644.52	112.00152	(21102401)	487886.96
3626644.52	118.59503	(21102401)		

487906.96	3626644.52	124.70489	(21102401)	487926.96
3626644.52	132.16453	(21102401)		
487946.96	3626644.52	141.42929	(21112423)	487966.96
3626644.52	148.90685	(21112423)		
487386.96	3626664.52	61.12085	(20101601)	487406.96
3626664.52	62.17782	(20101601)		
487426.96	3626664.52	63.33238	(20101601)	487446.96
3626664.52	64.73016	(20101601)		
487466.96	3626664.52	65.60577	(20101601)	487486.96
3626664.52	66.75521	(20101601)		
487506.96	3626664.52	67.32177	(20101601)	487526.96
3626664.52	64.14153	(20101601)		
487546.96	3626664.52	63.73154	(20101601)	487566.96
3626664.52	64.38479	(20101601)		
487586.96	3626664.52	59.10613	(21112423)	487606.96
3626664.52	60.77156	(21112423)		
487626.96	3626664.52	60.89466	(21112423)	487646.96
3626664.52	66.20704	(21112423)		
487666.96	3626664.52	70.14484	(21112423)	487686.96
3626664.52	75.72351	(21112423)		
487706.96	3626664.52	84.58744	(20101601)	487726.96
3626664.52	83.25296	(21112423)		
487746.96	3626664.52	93.12138	(20101601)	487766.96
3626664.52	100.36584	(20101601)		
487786.96	3626664.52	105.65303	(20101601)	487806.96
3626664.52	110.29689	(20101601)		
487826.96	3626664.52	115.83349	(20101601)	487846.96
3626664.52	121.09599	(20101601)		
487866.96	3626664.52	125.68619	(20101601)	487886.96
3626664.52	133.11771	(20101601)		
487906.96	3626664.52	139.59434	(20101601)	487926.96
3626664.52	139.89673	(21112423)		
487946.96	3626664.52	148.00810	(21112423)	487966.96
3626664.52	151.59039	(21112423)		
487986.96	3626664.52	161.79324	(21112423)	487386.96
3626684.52	59.99176	(20013121)		
487406.96	3626684.52	61.12936	(20013121)	487426.96
3626684.52	62.13560	(20013121)		
487446.96	3626684.52	62.96325	(20013121)	487466.96
3626684.52	63.96780	(20013121)		
487486.96	3626684.52	64.73569	(20013121)	487506.96
3626684.52	64.60978	(20013121)		
487526.96	3626684.52	63.33300	(21112423)	487546.96
3626684.52	65.56808	(21112423)		
487566.96	3626684.52	67.94316	(21112423)	487586.96
3626684.52	70.02614	(21112423)		
487606.96	3626684.52	70.14211	(21112423)	487626.96
3626684.52	66.76304	(21112423)		
487646.96	3626684.52	69.34461	(21112423)	487666.96
3626684.52	72.84155	(21112423)		

487686.96 3626684.52 82.11691 (21112423) 487706.96
 3626684.52 86.76491 (21112423)
 *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	CONC	(YYMMDDHH)			
487726.96	3626684.52	90.81446	(21112423)			487746.96
3626684.52	97.14384	(21112423)				
487766.96	3626684.52	102.06874	(21112423)			487786.96
3626684.52	106.34099	(21112423)				
487806.96	3626684.52	110.92317	(21112423)			487826.96
3626684.52	115.95596	(21112423)				
487846.96	3626684.52	121.31245	(21112423)			487866.96
3626684.52	126.98101	(21112423)				
487886.96	3626684.52	133.15309	(20012319)			487906.96
3626684.52	139.59941	(20012319)				
487926.96	3626684.52	147.17043	(21112423)			487946.96
3626684.52	144.91302	(21112423)				
487966.96	3626684.52	153.75066	(21112423)			487986.96
3626684.52	156.54269	(21020701)				
488006.96	3626684.52	182.35347	(21020701)			487366.96
3626704.52	59.57740	(20012319)				
487386.96	3626704.52	61.03931	(20012319)			487406.96
3626704.52	62.65578	(20012319)				
487426.96	3626704.52	64.00975	(20012319)			487446.96
3626704.52	64.02621	(20012319)				
487466.96	3626704.52	65.13388	(20012319)			487486.96
3626704.52	65.63429	(20012319)				
487506.96	3626704.52	66.12187	(21112423)			487526.96

3626704.52	66.97857	(21112423)		
487546.96	3626704.52	68.32663	(21112423)	487566.96
3626704.52	70.44357	(21112423)		
487586.96	3626704.52	73.01280	(21112423)	487606.96
3626704.52	75.59309	(21112423)		
487626.96	3626704.52	76.23065	(21112423)	487646.96
3626704.52	72.33706	(21112423)		
487666.96	3626704.52	72.11877	(21112423)	487686.96
3626704.52	82.77188	(21112423)		
487706.96	3626704.52	88.22797	(21112423)	487726.96
3626704.52	94.05259	(21112423)		
487746.96	3626704.52	98.60380	(21112423)	487766.96
3626704.52	102.70561	(21112423)		
487786.96	3626704.52	106.59840	(21112423)	487806.96
3626704.52	110.69855	(21112423)		
487826.96	3626704.52	115.49803	(21112423)	487846.96
3626704.52	120.77154	(21112423)		
487866.96	3626704.52	126.35303	(21112423)	487886.96
3626704.52	132.30521	(21112423)		
487906.96	3626704.52	138.88033	(21112423)	487926.96
3626704.52	146.94358	(21112423)		
487946.96	3626704.52	155.26170	(21112423)	487966.96
3626704.52	156.96914	(21020701)		
487986.96	3626704.52	172.44897	(21020701)	488006.96
3626704.52	189.90576	(21020701)		
488026.96	3626704.52	207.96375	(21020701)	487386.96
3626724.52	61.79130	(20012319)		
487406.96	3626724.52	62.72663	(20012319)	487426.96
3626724.52	63.51410	(20012319)		
487446.96	3626724.52	64.32992	(20012319)	487466.96
3626724.52	65.37666	(20012319)		
487486.96	3626724.52	66.32720	(21112423)	487506.96
3626724.52	67.71067	(21112423)		
487526.96	3626724.52	68.78858	(21112423)	487546.96
3626724.52	70.29880	(21112423)		
487566.96	3626724.52	70.90352	(21112423)	487586.96
3626724.52	72.43906	(21112423)		
487606.96	3626724.52	73.44213	(21112423)	487626.96
3626724.52	75.76203	(21112423)		
487646.96	3626724.52	77.06458	(21112423)	487666.96
3626724.52	79.34655	(21112423)		
487686.96	3626724.52	82.41591	(21112423)	487706.96
3626724.52	85.87958	(21112423)		
487726.96	3626724.52	90.86038	(21112423)	487746.96
3626724.52	94.67142	(21112423)		
487766.96	3626724.52	98.14792	(21112423)	487786.96
3626724.52	101.74088	(21112423)		
487806.96	3626724.52	105.91366	(21120107)	487826.96
3626724.52	112.12079	(21120107)		
487846.96	3626724.52	118.92205	(21120107)	487866.96

3626724.52 128.44620 (21120107)
 487886.96 3626724.52 137.74043 (21120107) 487906.96
 3626724.52 141.99148 (21120107)
 487926.96 3626724.52 149.60839 (21120107) 487946.96
 3626724.52 155.61231 (21020701)
 487966.96 3626724.52 158.03771 (21101502) 487986.96
 3626724.52 173.85776 (21101502)

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** 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)		
488006.96	3626724.52	190.62860	(21101502)	488026.96
3626724.52	217.99730 (19121406)			
488046.96	3626724.52	259.37833	(19120404)	487406.96
3626744.52	60.75129 (20012319)			
487426.96	3626744.52	61.00284	(21112423)	487446.96
3626744.52	62.39025 (21112423)			
487466.96	3626744.52	63.70328	(21112423)	487486.96
3626744.52	64.99010 (21112423)			
487506.96	3626744.52	66.14056	(21112423)	487526.96
3626744.52	66.97908 (21112423)			
487546.96	3626744.52	68.54340	(21112423)	487566.96
3626744.52	69.94754 (21112423)			
487586.96	3626744.52	68.92464	(21112423)	487606.96
3626744.52	69.20705 (21112423)			
487626.96	3626744.52	71.32487	(21112423)	487646.96
3626744.52	73.13809 (21112423)			
487666.96	3626744.52	75.05890	(21112423)	487686.96
3626744.52	77.15638 (21112423)			

487706.96	3626744.52	79.48188	(21112423)	487726.96
3626744.52	87.29759	(21120107)		
487746.96	3626744.52	94.28185	(21120107)	487766.96
3626744.52	100.70799	(21120107)		
487786.96	3626744.52	108.37562	(21120107)	487806.96
3626744.52	115.95939	(21120107)		
487826.96	3626744.52	119.93858	(21120107)	487846.96
3626744.52	124.51661	(21120107)		
487866.96	3626744.52	132.00998	(21020701)	487886.96
3626744.52	142.00661	(21020701)		
487906.96	3626744.52	147.66787	(21020701)	487926.96
3626744.52	153.67440	(21020701)		
487946.96	3626744.52	150.30046	(21101502)	487966.96
3626744.52	161.94414	(21101502)		
487986.96	3626744.52	179.63742	(19121406)	488006.96
3626744.52	204.70885	(19121406)		
488026.96	3626744.52	234.58668	(19120404)	488046.96
3626744.52	278.08940	(19120405)		
488066.96	3626744.52	333.52918	(19120405)	487446.96
3626764.52	62.30649	(19122507)		
487466.96	3626764.52	63.77539	(19122507)	487486.96
3626764.52	63.94499	(19122507)		
487506.96	3626764.52	64.15136	(19091906)	487526.96
3626764.52	65.14711	(19091906)		
487546.96	3626764.52	67.26238	(19091906)	487566.96
3626764.52	68.27732	(19091906)		
487586.96	3626764.52	68.72582	(19091906)	487606.96
3626764.52	66.90488	(21120107)		
487626.96	3626764.52	69.68472	(21120107)	487646.96
3626764.52	73.84030	(21120107)		
487666.96	3626764.52	78.26913	(21120107)	487686.96
3626764.52	82.41619	(21120107)		
487706.96	3626764.52	85.68377	(21120107)	487726.96
3626764.52	91.42192	(21120107)		
487746.96	3626764.52	97.96335	(21120107)	487766.96
3626764.52	104.79204	(21120107)		
487786.96	3626764.52	113.58423	(21120107)	487806.96
3626764.52	118.96029	(21120107)		
487826.96	3626764.52	125.29899	(21020701)	487846.96
3626764.52	130.85402	(21020701)		
487866.96	3626764.52	135.42012	(21020701)	487886.96
3626764.52	142.47057	(21020701)		
487906.96	3626764.52	147.43520	(21020701)	487926.96
3626764.52	154.31475	(21101502)		
487946.96	3626764.52	155.52277	(19121406)	487966.96
3626764.52	180.97443	(19121406)		
487986.96	3626764.52	205.76309	(19121406)	488006.96
3626764.52	231.95953	(19121406)		
488026.96	3626764.52	260.28190	(19120405)	488046.96
3626764.52	287.94620	(19120405)		

3626784.52	160.24250	(20122119)		
487946.96	3626784.52	176.84352	(19121406)	487966.96
3626784.52	197.04458	(19121406)		
487986.96	3626784.52	221.72060	(19120404)	488006.96
3626784.52	257.06949	(19120404)		
488026.96	3626784.52	296.49407	(19120405)	488046.96
3626784.52	294.16560	(19120405)		
487506.96	3626804.52	66.16565	(21120107)	487526.96
3626804.52	69.86382	(21120107)		
487546.96	3626804.52	72.19766	(21120107)	487566.96
3626804.52	74.81306	(21120107)		
487586.96	3626804.52	77.51688	(21120107)	487606.96
3626804.52	80.26727	(21120107)		
487626.96	3626804.52	84.07517	(21120107)	487646.96
3626804.52	85.80219	(21120107)		
487666.96	3626804.52	87.55848	(21120107)	487686.96
3626804.52	91.28373	(21020701)		
487706.96	3626804.52	96.92631	(21020701)	487726.96
3626804.52	100.33972	(21020701)		
487746.96	3626804.52	102.23052	(21020701)	487766.96
3626804.52	109.58102	(21020701)		
487786.96	3626804.52	114.87204	(21020701)	487806.96
3626804.52	119.55552	(19050905)		
487826.96	3626804.52	124.02689	(21090905)	487846.96
3626804.52	133.16678	(21090905)		
487866.96	3626804.52	142.44772	(20122119)	487886.96
3626804.52	147.53118	(20122119)		
487906.96	3626804.52	158.19060	(19121406)	487926.96
3626804.52	173.23149	(19121406)		
487946.96	3626804.52	189.67823	(19120404)	487966.96
3626804.52	217.78755	(19120404)		
487986.96	3626804.52	239.16710	(19120404)	487526.96
3626824.52	72.82071	(21120107)		
487546.96	3626824.52	75.55567	(21120107)	487566.96
3626824.52	77.80107	(21120107)		
487586.96	3626824.52	79.30319	(21120107)	487606.96
3626824.52	80.07365	(21120107)		
487626.96	3626824.52	83.87410	(21020701)	487646.96
3626824.52	87.07153	(21020701)		
487666.96	3626824.52	90.12908	(21020701)	487686.96
3626824.52	93.53836	(21020701)		
487706.96	3626824.52	96.99971	(21020701)	487726.96
3626824.52	101.44047	(21020701)		
487746.96	3626824.52	105.55752	(19050905)	487766.96
3626824.52	108.33519	(19050905)		
487786.96	3626824.52	112.61792	(21090905)	487806.96
3626824.52	120.32165	(21090905)		
487826.96	3626824.52	128.05136	(20122119)	487846.96
3626824.52	137.00394	(20122119)		
487866.96	3626824.52	145.41958	(20122119)	487886.96

3626824.52 157.04355 (19121406)
 487546.96 3626844.52 75.26575 (21120107) 487566.96
 3626844.52 77.59901 (21020701)
 487586.96 3626844.52 80.21869 (21020701) 487606.96
 3626844.52 82.40911 (21020701)
 487626.96 3626844.52 85.38566 (21020701) 487646.96
 3626844.52 87.43576 (21020701)
 487666.96 3626844.52 89.66114 (19050905) 487686.96
 3626844.52 92.77352 (19050905)
 487706.96 3626844.52 94.81415 (19050905) 487726.96
 3626844.52 99.03140 (21090905)
 487746.96 3626844.52 105.32017 (21090905) 487766.96
 3626844.52 110.51081 (21090905)
 487786.96 3626844.52 116.18915 (20122119) 487806.96
 3626844.52 123.28321 (20122119)
 487826.96 3626844.52 129.48285 (20122119) 487846.96
 3626844.52 139.64601 (19121406)

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L000013 , L000014
 , L000015 , L000016 , L000017 ,
 L000018 , L000019 , L000020 , L000021 , L000022
 , L000023 , L000024 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
487546.96	3626864.52	77.24798	(21020701)	487566.96
3626864.52	78.74840 (21020701)			
487586.96	3626864.52	80.30367	(21020701)	487606.96
3626864.52	81.89820 (19050905)			
487626.96	3626864.52	84.19645	(19050905)	487646.96
3626864.52	85.47264 (19050905)			
487666.96	3626864.52	87.05700	(19050905)	487686.96
3626864.52	92.47497 (21090905)			

487706.96	3626864.52	96.81823	(21090905)	487726.96
3626864.52	101.47385	(21090905)		
487746.96	3626864.52	106.67068	(20122119)	487766.96
3626864.52	112.09033	(20122119)		
487786.96	3626864.52	117.88314	(20122119)	487806.96
3626864.52	125.52279	(19121406)		
487566.96	3626884.52	78.17957	(19050905)	487586.96
3626884.52	78.62285	(19050905)		
487606.96	3626884.52	79.63844	(19050905)	487626.96
3626884.52	83.35934	(21090905)		
487646.96	3626884.52	86.95969	(21090905)	487666.96
3626884.52	90.30722	(21090905)		
487686.96	3626884.52	93.94853	(21090905)	487706.96
3626884.52	97.90555	(20122119)		
487726.96	3626884.52	102.99484	(20122119)	487746.96
3626884.52	107.11481	(20122119)		
487766.96	3626884.52	113.87606	(19121406)	487786.96
3626884.52	122.53242	(19121406)		
487586.96	3626904.52	78.30909	(21090905)	487606.96
3626904.52	81.60472	(21090905)		
487626.96	3626904.52	86.26333	(21090905)	487646.96
3626904.52	88.91824	(21090905)		
487666.96	3626904.52	92.92127	(20122119)	487686.96
3626904.52	96.70480	(20122119)		
487706.96	3626904.52	98.76508	(20122119)	487726.96
3626904.52	103.93707	(19121406)		
487746.96	3626904.52	111.15930	(19121406)	487766.96
3626904.52	117.22486	(19121406)		
487626.96	3626924.52	87.00051	(20122119)	487646.96
3626924.52	90.91334	(20122119)		
487666.96	3626924.52	93.79728	(20122119)	487686.96
3626924.52	96.48260	(19121406)		
487706.96	3626924.52	102.60316	(19121406)	487726.96
3626924.52	108.07481	(19121406)		
487746.96	3626924.52	112.08587	(19020306)	487646.96
3626944.52	88.87505	(19083006)		
487666.96	3626944.52	94.78199	(19121406)	487686.96
3626944.52	99.87730	(19121406)		
487706.96	3626944.52	104.08400	(19121406)	487726.96
3626944.52	111.39479	(19020306)		
487666.96	3626964.52	96.07804	(19121406)	487686.96
3626964.52	101.28886	(19020306)		
487706.96	3626964.52	108.34926	(19020306)	487686.96
3626984.52	106.13088	(19120404)		
488242.19	3625436.42	45.21656	(19032623)	488262.19
3625436.42	45.54911	(19032623)		
488242.19	3625456.42	46.25033	(19032623)	488262.19
3625456.42	46.36244	(19032623)		
488282.19	3625456.42	42.16746	(21080305)	488302.19
3625456.42	42.84118	(19110723)		

488322.19	3625456.42	43.35128	(19110723)	488242.19
3625476.42	47.31148	(19032623)		
488262.19	3625476.42	47.18507	(19032623)	488282.19
3625476.42	43.24065	(21080305)		
488302.19	3625476.42	43.98337	(19110723)	488322.19
3625476.42	44.15139	(19110723)		
488342.19	3625476.42	43.45678	(20091122)	488362.19
3625476.42	48.95862	(19080704)		
488242.19	3625496.42	48.40080	(19032623)	488262.19
3625496.42	48.01396	(19032623)		
488282.19	3625496.42	44.33839	(21080305)	488302.19
3625496.42	45.12801	(19110723)		
488322.19	3625496.42	44.91927	(19110723)	488342.19
3625496.42	45.11188	(19080704)		
488362.19	3625496.42	50.47978	(19080704)	488382.19
3625496.42	50.54332	(19080704)		
488402.19	3625496.42	45.24039	(19080704)	488422.19
3625496.42	45.22246	(20070402)		
488242.19	3625516.42	49.52116	(19032623)	488262.19
3625516.42	48.85072	(19032623)		
488282.19	3625516.42	45.46774	(21080305)	488302.19
3625516.42	46.30431	(19110723)		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** 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)		
488322.19	3625516.42	45.68370	(19110723)	488342.19
3625516.42	47.13593	(19080704)		
488362.19	3625516.42	51.93858	(19080704)	488382.19

3625516.42	51.08021	(19080704)			
488402.19	3625516.42	46.30331	(20070402)		488422.19
3625516.42	45.78200	(20070402)			
488442.19	3625516.42	43.51827	(20060224)		488462.19
3625516.42	44.85761	(20021420)			
488482.19	3625516.42	45.25496	(21082705)		488222.19
3625536.42	46.42846	(19032623)			
488242.19	3625536.42	50.66983	(19032623)		488262.19
3625536.42	49.69340	(19032623)			
488282.19	3625536.42	46.62483	(21080305)		488302.19
3625536.42	47.50184	(19110723)			
488322.19	3625536.42	46.73784	(20091122)		488342.19
3625536.42	49.16954	(19080704)			
488362.19	3625536.42	53.31449	(19080704)		488382.19
3625536.42	51.46237	(19080704)			
488402.19	3625536.42	47.63183	(20070402)		488422.19
3625536.42	46.17406	(20070402)			
488442.19	3625536.42	44.77548	(20060224)		488462.19
3625536.42	46.26274	(20021420)			
488482.19	3625536.42	46.76497	(21082705)		488502.19
3625536.42	48.39921	(21110719)			
488522.19	3625536.42	50.72851	(19052822)		488542.19
3625536.42	50.06651	(19052822)			
488222.19	3625556.42	47.69974	(19032623)		488242.19
3625556.42	51.84568	(19032623)			
488262.19	3625556.42	50.53883	(19032623)		488282.19
3625556.42	47.79590	(21080305)			
488302.19	3625556.42	48.68975	(19110723)		488322.19
3625556.42	47.91191	(20091122)			
488342.19	3625556.42	51.20372	(19080704)		488362.19
3625556.42	54.59442	(19080704)			
488382.19	3625556.42	51.68108	(19080704)		488402.19
3625556.42	48.79415	(20070402)			
488422.19	3625556.42	46.34735	(20070402)		488442.19
3625556.42	45.84485	(20060224)			
488462.19	3625556.42	47.45048	(20021420)		488482.19
3625556.42	47.98817	(21082705)			
488502.19	3625556.42	49.73447	(21110719)		488522.19
3625556.42	52.25654	(19052822)			
488542.19	3625556.42	49.90729	(19052822)		488562.19
3625556.42	47.21400	(19101221)			
488202.19	3625576.42	48.78459	(20091504)		488222.19
3625576.42	49.00161	(19032623)			
488242.19	3625576.42	53.04731	(19032623)		488262.19
3625576.42	51.38674	(19032623)			
488282.19	3625576.42	48.98464	(21080305)		488302.19
3625576.42	49.88582	(19110723)			
488322.19	3625576.42	49.07572	(20091122)		488342.19
3625576.42	53.22631	(19080704)			
488362.19	3625576.42	55.76282	(19080704)		488382.19

3625576.42	51.72314	(19080704)			
488402.19	3625576.42	49.82269	(20070402)		488422.19
3625576.42	47.08594	(21122219)			
488442.19	3625576.42	47.22208	(20021420)		488462.19
3625576.42	48.38670	(20021420)			
488482.19	3625576.42	49.49145	(21110719)		488502.19
3625576.42	51.78837	(19052822)			
488522.19	3625576.42	53.32376	(19052822)		488542.19
3625576.42	49.20967	(19052822)			
488562.19	3625576.42	48.33669	(19101221)		488582.19
3625576.42	48.50827	(20011720)			
488122.19	3625596.42	50.22831	(21102122)		488142.19
3625596.42	50.20195	(19082103)			
488162.19	3625596.42	50.73139	(20113019)		488182.19
3625596.42	50.79120	(20113019)			
488202.19	3625596.42	49.97761	(20091504)		488222.19
3625596.42	50.33707	(19032623)			
488242.19	3625596.42	54.27566	(19032623)		488262.19
3625596.42	52.23809	(19032623)			
488282.19	3625596.42	50.19024	(21080305)		488302.19
3625596.42	51.08588	(19110723)			
488322.19	3625596.42	50.22393	(20091122)		488342.19
3625596.42	55.22007	(19080704)			
488362.19	3625596.42	56.80105	(19080704)		488382.19
3625596.42	51.57573	(19080704)			
488402.19	3625596.42	50.68491	(20070402)		488422.19
3625596.42	47.87504	(21122219)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
, L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
, L0000023 , L0000024 ,

*** 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)		

488522.19	3625596.42	53.86458	(19052822)	488542.19
3625596.42	49.14425 (19101221)			
488562.19	3625596.42	49.15675	(20011720)	488582.19
3625596.42	49.17707 (20011720)			
488602.19	3625596.42	48.70339	(20060721)	488062.19
3625616.42	50.06833 (20090823)			
488082.19	3625616.42	50.90255	(20021323)	488102.19
3625616.42	49.81087 (21102122)			
488122.19	3625616.42	51.41031	(21102122)	488142.19
3625616.42	51.23407 (19082103)			
488162.19	3625616.42	51.91575	(19082103)	488182.19
3625616.42	52.03637 (20113019)			
488202.19	3625616.42	51.18414	(20091504)	488222.19
3625616.42	51.71896 (19032623)			
488242.19	3625616.42	55.53682	(19032623)	488262.19
3625616.42	53.09518 (19032623)			
488282.19	3625616.42	51.41136	(21080305)	488302.19
3625616.42	52.27047 (19110723)			
488322.19	3625616.42	51.34419	(20091122)	488342.19
3625616.42	57.16946 (19080704)			
488362.19	3625616.42	57.68699	(19080704)	488382.19
3625616.42	51.78504 (20070402)			
488402.19	3625616.42	51.24945	(20070402)	488522.19
3625616.42	53.81713 (19052822)			
488542.19	3625616.42	50.84545	(19101221)	488562.19
3625616.42	50.95484 (20011720)			
488582.19	3625616.42	50.26374	(20060721)	488602.19
3625616.42	48.76986 (20060721)			
488062.19	3625636.42	51.08997	(20090823)	488082.19
3625636.42	51.98560 (20021323)			
488102.19	3625636.42	50.58218	(21102122)	488122.19
3625636.42	52.61062 (21102122)			
488142.19	3625636.42	52.28634	(19082103)	488162.19
3625636.42	53.19316 (19082103)			
488182.19	3625636.42	53.31576	(20113019)	488202.19
3625636.42	52.41498 (20091504)			
488222.19	3625636.42	53.15011	(19032623)	488242.19
3625636.42	56.83174 (19032623)			
488262.19	3625636.42	53.95630	(19032623)	488282.19
3625636.42	52.65179 (21080305)			
488302.19	3625636.42	53.45256	(19110723)	488322.19
3625636.42	52.47039 (19080704)			
488342.19	3625636.42	59.05627	(19080704)	488362.19
3625636.42	58.40268 (19080704)			
488382.19	3625636.42	53.40473	(20070402)	488522.19
3625636.42	53.14123 (19052822)			
488542.19	3625636.42	52.08107	(19101221)	488562.19
3625636.42	52.19421 (20011720)			

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
488182.19	3625676.42	56.00074	(20113019)	488202.19
3625676.42	54.99390	(20091504)		
488222.19	3625676.42	56.17977	(19032623)	488242.19
3625676.42	59.52911	(19032623)		
488262.19	3625676.42	55.68379	(19032623)	488282.19
3625676.42	55.66404	(19110723)		
488302.19	3625676.42	55.78554	(19110723)	488322.19
3625676.42	57.64694	(19080704)		
488342.19	3625676.42	62.55425	(19080704)	488362.19
3625676.42	59.24126	(19080704)		
488382.19	3625676.42	56.17638	(20070402)	488582.19
3625676.42	52.23224	(20081905)		
488602.19	3625676.42	51.99545	(21082623)	488622.19
3625676.42	54.55821	(20102522)		
488642.19	3625676.42	57.85926	(20102522)	488062.19
3625696.42	54.26112	(20021423)		
488082.19	3625696.42	55.06524	(20021323)	488102.19
3625696.42	54.80487	(20021323)		
488122.19	3625696.42	56.29251	(21102122)	488142.19
3625696.42	55.77699	(20111220)		
488162.19	3625696.42	57.28194	(19100801)	488182.19
3625696.42	57.42186	(20113019)		
488202.19	3625696.42	56.35545	(20091504)	488222.19
3625696.42	57.78478	(19032623)		
488242.19	3625696.42	60.93382	(19032623)	488262.19
3625696.42	56.54719	(19032623)		
488282.19	3625696.42	57.39917	(19110723)	488302.19
3625696.42	56.91184	(19110723)		
488322.19	3625696.42	60.25974	(19080704)	488342.19
3625696.42	64.11600	(19080704)		
488362.19	3625696.42	59.32342	(19080704)	488382.19
3625696.42	57.25366	(20070402)		
488582.19	3625696.42	53.17255	(20081905)	488602.19
3625696.42	53.22423	(19100803)		
488622.19	3625696.42	58.27412	(20102522)	488642.19
3625696.42	58.71496	(20102522)		
488662.19	3625696.42	56.97254	(19082901)	488042.19
3625716.42	54.51461	(19111203)		
488142.19	3625716.42	57.17870	(20111220)	488162.19
3625716.42	58.76295	(19100801)		
488182.19	3625716.42	58.90281	(20113019)	488202.19
3625716.42	57.77001	(20091504)		
488222.19	3625716.42	59.45454	(19032623)	488242.19

3625716.42	62.37831	(19032623)			
488262.19	3625716.42		57.73564	(21080305)	488282.19
3625716.42	59.15586	(19110723)			
488302.19	3625716.42		58.55234	(20091122)	488322.19
3625716.42	62.86416	(19080704)			
488342.19	3625716.42		65.51726	(19080704)	488362.19
3625716.42	59.15521	(19080704)			
488382.19	3625716.42		58.07283	(20070402)	488602.19
3625716.42	56.73516	(20102522)			
488622.19	3625716.42		60.83752	(20102522)	488642.19
3625716.42	58.12878	(20102522)			
488662.19	3625716.42		59.61337	(19082901)	488682.19
3625716.42	57.18076	(19082901)			
488022.19	3625736.42		55.44285	(20111904)	488042.19
3625736.42	55.62598	(19111203)			
488182.19	3625736.42		60.44327	(20113019)	488202.19
3625736.42	59.24480	(20091504)			
488222.19	3625736.42		61.18988	(19032623)	488242.19
3625736.42	63.85973	(19032623)			
488262.19	3625736.42		59.55859	(21080305)	488282.19
3625736.42	60.97010	(19110723)			
488302.19	3625736.42		60.24883	(20091122)	488322.19
3625736.42	65.43741	(19080704)			
488362.19	3625736.42		60.38141	(20070402)	488382.19
3625736.42	58.61711	(20070402)			
488402.19	3625736.42		57.03248	(20021420)	488602.19
3625736.42	61.00756	(20102522)			
488622.19	3625736.42		61.98884	(20102522)	488642.19
3625736.42	59.99868	(19082901)			
488662.19	3625736.42		60.68804	(19082901)	488682.19
3625736.42	55.02456	(19082901)			
488702.19	3625736.42		53.34535	(21103121)	488002.19
3625756.42	55.86344	(19110122)			
488022.19	3625756.42		57.01092	(20111904)	488182.19
3625756.42	62.04799	(20113019)			
488202.19	3625756.42		60.77683	(20091504)	488222.19
3625756.42	62.99640	(19032623)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***
INCLUDING SOURCE(S): L0000013 , L0000014
, L0000015 , L0000016 , L0000017 ,
L0000018 , L0000019 , L0000020 , L0000021 , L0000022

, L0000023 , L0000024 ,

*** 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)		
488242.19	3625756.42	65.38125	(19032623)	488262.19
3625756.42	61.43608	(21080305)		
488282.19	3625756.42	62.80123	(19110723)	488382.19
3625756.42	59.24789	(20072602)		
488602.19	3625756.42	64.05471	(20102522)	488622.19
3625756.42	61.54782	(20102522)		
488642.19	3625756.42	62.84123	(19082901)	488662.19
3625756.42	60.00938	(19082901)		
488682.19	3625756.42	55.18472	(21103121)	488702.19
3625756.42	53.65151	(21042721)		
487982.19	3625776.42	56.99242	(21120123)	488002.19
3625776.42	57.06288	(19110122)		
488222.19	3625776.42	64.87918	(19032623)	488242.19
3625776.42	66.94511	(19032623)		
488262.19	3625776.42	63.35500	(21080305)	488622.19
3625776.42	63.31768	(19082901)		
488642.19	3625776.42	63.93920	(19082901)	488662.19
3625776.42	57.53504	(19082901)		
488682.19	3625776.42	56.10630	(21103121)	488702.19
3625776.42	54.62906	(21042721)		
488722.19	3625776.42	54.24266	(19100221)	487982.19
3625796.42	57.77668	(21120123)		
488222.19	3625796.42	66.84075	(19032623)	488242.19
3625796.42	68.54954	(19032623)		
488262.19	3625796.42	65.32636	(21080305)	488622.19
3625796.42	66.38339	(19082901)		
488642.19	3625796.42	63.08391	(19082901)	488662.19
3625796.42	58.37325	(21103121)		
488682.19	3625796.42	56.85681	(21042721)	488702.19
3625796.42	55.00423	(21091802)		
488722.19	3625796.42	56.56447	(19100221)	488742.19
3625796.42	57.78276	(21081502)		
488222.19	3625816.42	68.88583	(19032623)	488242.19
3625816.42	70.19568	(19032623)		
488262.19	3625816.42	67.33663	(21080305)	488642.19
3625816.42	60.23670	(19082901)		
488662.19	3625816.42	59.01489	(21103121)	488682.19
3625816.42	57.44155	(21042721)		

488702.19	3625816.42	57.97078	(19100221)	488722.19
3625816.42	59.07454 (21081502)			
488742.19	3625816.42	58.32160	(21081502)	488762.19
3625816.42	54.46518 (19032804)			
488202.19	3625836.42	67.56984	(21011221)	488222.19
3625836.42	71.02013 (19032623)			
488242.19	3625836.42	71.88497	(19032623)	488662.19
3625836.42	60.21422 (21042721)			
488682.19	3625836.42	58.64988	(19100221)	488702.19
3625836.42	59.72362 (19100221)			
488722.19	3625836.42	60.91203	(21081502)	488742.19
3625836.42	56.78231 (19032804)			
488762.19	3625836.42	55.49905	(20071101)	488782.19
3625836.42	56.37033 (20112002)			
488202.19	3625856.42	69.61113	(21011221)	488222.19
3625856.42	73.24427 (19032623)			
488242.19	3625856.42	73.61481	(19032623)	488682.19
3625856.42	61.78805 (19100221)			
488702.19	3625856.42	62.95938	(21081502)	488722.19
3625856.42	60.33752 (21081502)			
488742.19	3625856.42	57.47674	(20071101)	488762.19
3625856.42	58.06777 (20112002)			
488782.19	3625856.42	56.45184	(19100520)	488802.19
3625856.42	54.97512 (19100520)			
488822.19	3625856.42	53.83657	(19101421)	488202.19
3625876.42	71.78224 (21011221)			
488222.19	3625876.42	75.56437	(19032623)	488662.19
3625876.42	63.10169 (19100221)			
488682.19	3625876.42	64.32990	(21081502)	488702.19
3625876.42	63.75053 (21081502)			
488722.19	3625876.42	59.54144	(19032804)	488742.19
3625876.42	59.47659 (20112002)			
488762.19	3625876.42	58.85423	(20112002)	488782.19
3625876.42	57.42504 (19100520)			
488802.19	3625876.42	56.03360	(19101421)	488822.19
3625876.42	53.48068 (20100520)			
488842.19	3625876.42	52.20994	(20071102)	488202.19
3625896.42	74.10978 (21011221)			
488222.19	3625896.42	77.98501	(19032623)	488642.19
3625896.42	63.57921 (21091802)			
488662.19	3625896.42	65.62929	(19100221)	488682.19
3625896.42	66.68029 (21081502)			

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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)		
488702.19	3625896.42	62.28761	(19032804)	488722.19
3625896.42	60.97441	(20071101)		
488742.19	3625896.42	61.32393	(20112002)	488762.19
3625896.42	59.78982	(19100520)		
488782.19	3625896.42	58.18182	(19101421)	488802.19
3625896.42	55.48863	(20100520)		
488822.19	3625896.42	53.64652	(21110505)	488842.19
3625896.42	54.95302	(20071102)		
488862.19	3625896.42	53.21857	(20081323)	488882.19
3625896.42	52.02980	(20081323)		
488902.19	3625896.42	51.17202	(20021319)	488202.19
3625916.42	76.50034	(21011221)		
488222.19	3625916.42	80.51630	(19032623)	488642.19
3625916.42	67.72910	(19100221)		
488662.19	3625916.42	68.96289	(21081502)	488682.19
3625916.42	66.15899	(21081502)		
488702.19	3625916.42	63.46596	(20071101)	488762.19
3625916.42	60.24719	(19101421)		
488782.19	3625916.42	57.56518	(19101421)	488802.19
3625916.42	55.43179	(21110505)		
488822.19	3625916.42	56.71924	(20071102)	488842.19
3625916.42	55.24111	(20071102)		
488862.19	3625916.42	53.97498	(20081323)	488882.19
3625916.42	52.89758	(20021319)		
488902.19	3625916.42	52.09765	(19101420)	488922.19
3625916.42	50.88009	(19042003)		
488942.19	3625916.42	52.27684	(19042003)	488222.19
3625936.42	83.16704	(19032623)		
488622.19	3625936.42	68.89613	(19100221)	488642.19
3625936.42	70.42647	(21081502)		
488662.19	3625936.42	70.09323	(21081502)	488682.19
3625936.42	65.65351	(20071101)		
488782.19	3625936.42	57.79158	(20100520)	488802.19

3625936.42	58.51237	(20071102)			
488822.19	3625936.42		57.42269	(20071102)	488842.19
3625936.42	56.02240	(20081323)			
488862.19	3625936.42		54.71814	(19092021)	488882.19
3625936.42	53.87929	(19101420)			
488902.19	3625936.42		52.64789	(19042003)	488922.19
3625936.42	54.04076	(19042003)			
488942.19	3625936.42		52.96369	(19042003)	488962.19
3625936.42	49.80546	(20041924)			
488982.19	3625936.42		48.23048	(21091202)	489002.19
3625936.42	46.87006	(19082501)			
488602.19	3625956.42		71.30703	(21042721)	488622.19
3625956.42	72.47258	(19100221)			
488642.19	3625956.42		73.45091	(21081502)	488662.19
3625956.42	68.69659	(19032804)			
488782.19	3625956.42		60.31951	(20071102)	488802.19
3625956.42	59.68682	(20071102)			
488822.19	3625956.42		58.18461	(20081323)	488842.19
3625956.42	56.72245	(19092021)			
488862.19	3625956.42		55.76310	(19101420)	488882.19
3625956.42	54.52083	(19042003)			
488902.19	3625956.42		55.90171	(19042003)	488922.19
3625956.42	54.65364	(19042003)			
488942.19	3625956.42		51.38782	(20041924)	488962.19
3625956.42	49.75878	(21091202)			
488982.19	3625956.42		48.46847	(19082501)	489002.19
3625956.42	48.04380	(21070304)			
489022.19	3625956.42		47.83441	(21070304)	489042.19
3625956.42	46.02949	(21070304)			
489062.19	3625956.42		45.66928	(19030322)	489082.19
3625956.42	45.73933	(19030322)			
488622.19	3625976.42		76.01545	(21081502)	488802.19
3625976.42	60.46400	(20081323)			
488822.19	3625976.42		58.83863	(19092021)	488842.19
3625976.42	57.73696	(19101420)			
488862.19	3625976.42		56.50067	(19042003)	488882.19
3625976.42	57.86030	(19042003)			
488902.19	3625976.42		56.42026	(19042003)	488922.19
3625976.42	53.03999	(20041924)			
488942.19	3625976.42		51.34445	(21091202)	488962.19
3625976.42	50.11357	(19082501)			
488982.19	3625976.42		49.79197	(21070304)	489002.19
3625976.42	49.22190	(21070304)			
489022.19	3625976.42		47.12317	(20101020)	489042.19
3625976.42	47.27295	(19030322)			
489062.19	3625976.42		46.88994	(19030322)	489082.19
3625976.42	44.96964	(19030322)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCK ***

INCLUDING SOURCE(S): L000013 , L000014
, L000015 , L000016 , L000017 ,
L000018 , L000019 , L000020 , L000021 , L000022
, L000023 , L000024 ,

*** 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)		
489102.19	3625976.42	43.18615	(21020920)	489122.19
3625976.42	42.90556	(21020920)		
488802.19	3625996.42	61.06373	(19092021)	488822.19
3625996.42	59.82812	(19101420)		
488842.19	3625996.42	58.60552	(19042003)	488922.19
3625996.42	52.96284	(21091202)		
488942.19	3625996.42	51.80255	(19082501)	488962.19
3625996.42	51.57385	(21070304)		
488982.19	3625996.42	50.60556	(21070304)	489002.19
3625996.42	48.60026	(20101020)		
489022.19	3625996.42	48.83259	(19030322)	489042.19
3625996.42	47.95111	(19030322)		
489062.19	3625996.42	45.51439	(19030322)	489082.19
3625996.42	44.75002	(21020920)		
489102.19	3625996.42	44.04494	(21020920)	489122.19
3625996.42	43.59119	(20062624)		
489142.19	3625996.42	42.64154	(20062624)	488802.19
3626016.42	62.03268	(19101420)		
488822.19	3626016.42	60.87511	(19042003)	488842.19
3626016.42	62.14575	(19042003)		
488982.19	3626016.42	50.04907	(20101020)	489002.19
3626016.42	50.33402	(19030322)		
489022.19	3626016.42	48.91127	(19030322)	489042.19
3626016.42	46.57674	(20012621)		
489062.19	3626016.42	46.23417	(21020920)	489082.19
3626016.42	45.24375	(20062624)		
489102.19	3626016.42	44.84727	(20062624)	489122.19
3626016.42	43.40017	(20062624)		

489142.19	3626016.42	42.53964	(19050724)	488782.19
3626036.42	64.36148 (19101420)			
488802.19	3626036.42	63.25993	(19042003)	488822.19
3626036.42	64.52415 (19042003)			
488842.19	3626036.42	62.33348	(19042003)	489042.19
3626036.42	47.62050 (21020920)			
489062.19	3626036.42	46.87261	(20062624)	489082.19
3626036.42	45.94499 (20062624)			
489102.19	3626036.42	43.97072	(20062624)	489122.19
3626036.42	44.27490 (19050724)			
489142.19	3626036.42	44.05269	(19050724)	488782.19
3626056.42	65.76550 (19042003)			
488802.19	3626056.42	66.99878	(19042003)	488822.19
3626056.42	64.56023 (19042003)			
488842.19	3626056.42	60.45689	(20041924)	489042.19
3626056.42	48.35308 (20062624)			
489062.19	3626056.42	46.86842	(20062624)	489082.19
3626056.42	45.48890 (19050724)			
489102.19	3626056.42	45.78483	(19050724)	489122.19
3626056.42	45.15542 (19042005)			
489142.19	3626056.42	44.99957	(19042005)	489162.19
3626056.42	43.93149 (19042005)			
488782.19	3626076.42	69.55176	(19042003)	488802.19
3626076.42	66.86560 (19042003)			
488822.19	3626076.42	62.54595	(20041924)	488842.19
3626076.42	60.27612 (19082501)			
488862.19	3626076.42	59.56987	(21070304)	489062.19
3626076.42	47.37116 (19050724)			
489082.19	3626076.42	47.02746	(19050724)	489102.19
3626076.42	46.89631 (19042005)			
489122.19	3626076.42	46.13067	(19042005)	489142.19
3626076.42	44.47035 (19042005)			
489162.19	3626076.42	42.85692	(20041204)	488782.19
3626096.42	69.20432 (19042003)			
488802.19	3626096.42	64.69558	(20041924)	488822.19
3626096.42	62.65446 (19082501)			
488842.19	3626096.42	61.95659	(21070304)	488862.19
3626096.42	60.70569 (21070304)			
489062.19	3626096.42	48.77119	(19042005)	489082.19
3626096.42	48.36538 (19042005)			
489102.19	3626096.42	46.94575	(19042005)	489122.19
3626096.42	44.77355 (20041204)			
489142.19	3626096.42	43.60880	(20031420)	489162.19
3626096.42	42.94892 (20031420)			
488782.19	3626116.42	66.92287	(20041924)	488802.19
3626116.42	65.10208 (19082501)			
488822.19	3626116.42	64.37311	(21070304)	488842.19
3626116.42	62.51844 (21070304)			
488862.19	3626116.42	60.14842	(20101020)	489062.19
3626116.42	49.48961 (19042005)			

489082.19 3626116.42 47.40081 (19042005) 489102.19
 3626116.42 45.57769 (20120918)
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): 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)
489122.19	3626116.42	44.94320	(20031420)	489142.19
3626116.42	43.68604 (20031420)			
489162.19	3626116.42	41.78109	(20031420)	489182.19
3626116.42	40.79524 (20090222)			
488782.19	3626136.42	67.62152	(19082501)	488802.19
3626136.42	66.81823 (21070304)			
488822.19	3626136.42	64.28579	(21070304)	488842.19
3626136.42	62.06477 (19030322)			
488862.19	3626136.42	60.72809	(19030322)	489082.19
3626136.42	47.01518 (20031420)			
489102.19	3626136.42	45.88837	(20031420)	489122.19
3626136.42	44.01603 (20031420)			
489142.19	3626136.42	42.59464	(20090222)	489162.19
3626136.42	42.13298 (20090222)			
489182.19	3626136.42	41.10388	(20090222)	488782.19
3626156.42	69.28739 (21070304)			
488802.19	3626156.42	66.46988	(20101020)	488822.19
3626156.42	64.31311 (19030322)			
488842.19	3626156.42	62.14434	(19030322)	488862.19
3626156.42	61.29918 (21020920)			
488882.19	3626156.42	59.97685	(21020920)	489102.19
3626156.42	44.51591 (20090222)			
489122.19	3626156.42	44.08687	(20090222)	489142.19

3626156.42	43.04226	(20090222)			
489162.19	3626156.42		41.62459	(20072623)	489182.19
3626156.42	41.58434	(19050723)			
488782.19	3626176.42		68.88936	(20101020)	488802.19
3626176.42	66.45528	(19030322)			
488822.19	3626176.42		64.48676	(20071024)	488842.19
3626176.42	63.71591	(21020920)			
488862.19	3626176.42		61.86532	(21073002)	488882.19
3626176.42	60.32888	(20062624)			
489122.19	3626176.42		43.50226	(20090222)	489142.19
3626176.42	43.24033	(19050723)			
489162.19	3626176.42		43.10518	(19050723)	489182.19
3626176.42	42.38447	(19050723)			
488782.19	3626196.42		68.47406	(19030322)	488802.19
3626196.42	66.94817	(21020920)			
488822.19	3626196.42		65.95930	(21020920)	488842.19
3626196.42	64.16554	(21073002)			
488862.19	3626196.42		61.66591	(21073002)	488882.19
3626196.42	59.14714	(19050724)			
488902.19	3626196.42		59.90911	(19042005)	489142.19
3626196.42	44.03326	(19050723)			
489162.19	3626196.42		43.31538	(19042004)	489182.19
3626196.42	42.17836	(19042004)			
489202.19	3626196.42		40.66492	(19042004)	488782.19
3626216.42	69.93707	(21020920)			
488802.19	3626216.42		67.98359	(21020920)	488822.19
3626216.42	66.19798	(21073002)			
488842.19	3626216.42		63.20182	(20102322)	488862.19
3626216.42	62.38017	(19042005)			
488882.19	3626216.42		62.37347	(19042005)	488902.19
3626216.42	60.80938	(19042005)			
489142.19	3626216.42		44.05159	(19042004)	489162.19
3626216.42	42.36850	(19042004)			
489182.19	3626216.42		40.96704	(21071622)	489202.19
3626216.42	40.21201	(21100604)			
489222.19	3626216.42		39.65405	(21100604)	489242.19
3626216.42	38.78558	(21100604)			
489262.19	3626216.42		37.69659	(21072324)	488782.19
3626236.42	70.53825	(21073002)			
488802.19	3626236.42		67.91551	(21073002)	488822.19
3626236.42	65.01578	(20102322)			
488842.19	3626236.42		65.43168	(19042005)	488862.19
3626236.42	64.38045	(19042005)			
488882.19	3626236.42		61.79112	(19042005)	488902.19
3626236.42	59.08757	(20120918)			
489142.19	3626236.42		42.71331	(21071622)	489162.19
3626236.42	42.09761	(21100604)			
489182.19	3626236.42		41.35163	(21100604)	489202.19
3626236.42	40.28227	(21100604)			
489222.19	3626236.42		39.27933	(21072324)	489242.19

3626236.42 38.50502 (21072324)
 489262.19 3626236.42 38.16770 (19092701) 488782.19
 3626256.42 69.73259 (20102322)
 488802.19 3626256.42 68.48117 (19042005) 488822.19
 3626256.42 68.02019 (19042005)
 488842.19 3626256.42 65.85857 (19042005) 488862.19
 3626256.42 62.76855 (20120918)

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: TRUCK ***
 INCLUDING SOURCE(S): L0000013 , L0000014
 , L0000015 , L0000016 , L0000017 ,
 L0000018 , L0000019 , L0000020 , L0000021 , L0000022
 , L0000023 , L0000024 ,

*** 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)		
488882.19	3626256.42	60.72614	(19080723)	488902.19
3626256.42	58.40079	(19080723)		
488922.19	3626256.42	56.31923	(20090222)	489142.19
3626256.42	43.11919	(21100604)		
489162.19	3626256.42	41.76014	(21100604)	489222.19
3626256.42	39.86898	(19092701)		
489242.19	3626256.42	39.10339	(19092701)	489262.19
3626256.42	38.26870	(19060822)		
488882.19	3626276.42	59.50213	(19083123)	488902.19
3626276.42	58.30708	(20090222)		
488922.19	3626276.42	56.29886	(20090222)	489142.19
3626276.42	42.73039	(19092701)		
489162.19	3626276.42	42.14116	(19092701)	489242.19
3626276.42	39.24980	(19060822)		
489262.19	3626276.42	38.29555	(19060822)	488882.19
3626296.42	59.59306	(20090222)		
488902.19	3626296.42	57.62612	(19042004)	489262.19
3626296.42	38.13364	(20072422)		

489282.19	3626296.42	37.46177	(19050722)	488902.19
3626316.42	59.78557	(19042004)		
489282.19	3626316.42	37.03614	(19050722)	489302.19
3626316.42	36.37381	(20081822)		
488902.19	3626336.42	58.49566	(19042004)	488922.19
3626336.42	55.54843	(21062024)		
489302.19	3626336.42	36.71597	(21070101)	489322.19
3626336.42	36.02611	(21070101)		
488922.19	3626356.42	55.32868	(21062024)	488942.19
3626356.42	53.91829	(19092701)		
489322.19	3626356.42	36.09890	(19073123)	488942.19
3626376.42	54.15289	(19060822)		
488962.19	3626376.42	53.00349	(19060822)	489322.19
3626376.42	36.29693	(19072303)		
489342.19	3626376.42	35.52870	(19072303)	488962.19
3626396.42	52.55981	(19083024)		
489322.19	3626396.42	36.07967	(19043020)	489342.19
3626396.42	35.38113	(19043020)		
489342.19	3626416.42	35.08867	(19013019)	489342.19
3626436.42	34.85683	(21062324)		
488086.20	3626768.13	244.42559	(21011618)	488077.21
3626746.82	207.02834	(19120716)		
488075.79	3626778.08	247.48788	(21011618)	488002.86
3626694.73	152.92249	(19042203)		
487535.35	3626865.62	76.58599	(21020701)	487693.75
3626992.77	112.82472	(19120404)		
487795.04	3626883.94	125.24713	(19121406)	487871.55
3626830.06	149.23528	(19121406)		
487958.83	3626811.74	212.86871	(19120404)	488041.80
3626794.50	331.09443	(19120405)		
488094.61	3626765.41	526.95129	(19120716)	488046.12
3626714.76	242.11333	(19121406)		
488007.32	3626665.19	173.41994	(21112423)	487941.59
3626599.46	131.07287	(21012122)		
487911.42	3626574.68	129.29372	(20122123)	487815.52
3626540.19	93.67472	(19040823)		
487709.91	3626504.63	63.12035	(19021102)	487555.82
3626439.98	55.93988	(19021102)		
487490.09	3626487.39	59.54679	(20122123)	487428.67
3626556.36	62.47787	(20122123)		
487358.63	3626713.68	60.09494	(20012319)	487522.42
3626827.90	72.41361	(21120107)		
488235.45	3625424.52	43.52367	(19032623)	488562.08
3625540.85	46.05571	(19101221)		
488747.03	3625794.41	57.54928	(21081502)	488857.40
3625879.42	53.50957	(20071102)		
489054.28	3625949.52	45.03843	(20101020)	489134.82
3625964.44	42.15904	(21020920)		
489178.07	3626085.25	42.18546	(20031420)	489203.43
3626198.60	40.35694	(19042004)		

3626259.34	72.72499	(21073002)			
488787.87	3625962.95	61.11409	(20071102)		488735.67
3625906.27	62.18346	(20112002)			
488620.82	3625988.31	77.55216	(21081502)		488588.00
3625956.98	73.36641	(21042721)			
488671.53	3625861.52	61.69700	(19100221)		488629.77
3625813.79	65.74633	(19082901)			
488588.00	3625746.67	58.82332	(20102522)		488571.59
3625648.23	52.28686	(20060721)			
488516.41	3625666.13	53.76579	(19032522)		488522.37
3625581.11	53.48394	(19052822)			
488431.39	3625576.63	46.65595	(20060224)		488447.79
3625615.41	50.74719	(20021420)			
488388.13	3625616.90	52.26765	(20070402)		488398.57
3625706.40	54.91661	(20072602)			
488406.03	3625745.18	58.98741	(20021420)		488392.60
3625776.50	60.35320	(21091105)			
488350.84	3625722.81	63.99363	(19080704)		488279.24
3625769.05	63.81380	(19110723)			
488282.23	3625807.83	67.43546	(19110723)		488246.43
3625851.08	71.80500	(19032623)			
488230.02	3625946.54	85.29148	(19032623)		488188.26
3625924.17	77.76146	(20113019)			
488213.62	3625757.11	60.56509	(20091504)		488170.36
3625779.49	63.97026	(20113019)			
488170.36	3625733.25	60.38737	(20113019)		488077.88
3625697.45	54.89609	(20090823)			
487973.47	3625822.74	57.66801	(20030603)		487955.57
3625809.32	56.72137	(19111401)			
488058.49	3625678.06	53.15153	(20021423)		488057.00
3625618.40	49.87198	(20090823)			
488107.71	3625596.02	49.80288	(21102122)		488185.27
3625576.63	49.17179	(20113019)			
488228.53	3625528.90	47.82965	(19032623)		488233.01
3625482.66	46.15546	(19032623)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
487526.96	3626464.52	117.60127	(19021102)	487546.96
3626464.52	119.60297	(19021102)		
487566.96	3626464.52	120.34618	(19021102)	487586.96
3626464.52	123.66473	(19021102)		
487606.96	3626464.52	123.18454	(19021102)	487506.96
3626484.52	122.08606	(19040823)		
487526.96	3626484.52	124.21736	(19040823)	487546.96
3626484.52	122.79874	(19040823)		
487566.96	3626484.52	122.96483	(19040823)	487586.96
3626484.52	124.40175	(19040823)		
487606.96	3626484.52	121.79697	(19040823)	487626.96
3626484.52	124.84846	(19021102)		
487646.96	3626484.52	128.75654	(19021102)	487486.96
3626504.52	119.62938	(19040823)		
487506.96	3626504.52	124.02312	(19040823)	487526.96
3626504.52	127.44817	(19040823)		
487546.96	3626504.52	123.58102	(19040823)	487566.96
3626504.52	124.20125	(19040823)		
487586.96	3626504.52	127.23966	(19040823)	487606.96
3626504.52	125.51410	(19040823)		
487626.96	3626504.52	127.62837	(19040823)	487646.96
3626504.52	130.68412	(19040823)		
487666.96	3626504.52	133.41082	(19040823)	487686.96
3626504.52	132.72075	(19021102)		
487706.96	3626504.52	131.37178	(19021102)	487466.96
3626524.52	110.69851	(19040823)		
487486.96	3626524.52	115.47309	(19040823)	487506.96
3626524.52	121.64340	(19040823)		
487526.96	3626524.52	125.58937	(19040823)	487546.96
3626524.52	119.43822	(19040823)		
487566.96	3626524.52	120.35698	(19040823)	487586.96
3626524.52	124.75959	(19040823)		
487606.96	3626524.52	128.49651	(19040823)	487626.96
3626524.52	128.25097	(19040823)		
487646.96	3626524.52	132.91440	(19040823)	487666.96
3626524.52	136.71286	(19040823)		
487686.96	3626524.52	135.65101	(19040823)	487706.96

3626524.52	137.92755	(19040823)		
487726.96	3626524.52	143.02108	(19040823)	487746.96
3626524.52	157.83934	(19040823)		
487766.96	3626524.52	164.94890	(19040823)	487446.96
3626544.52	112.92608	(19041421)		
487466.96	3626544.52	114.34198	(19041421)	487486.96
3626544.52	117.62827	(19041421)		
487506.96	3626544.52	120.17416	(19041421)	487526.96
3626544.52	116.54714	(19041421)		
487546.96	3626544.52	120.92806	(19040823)	487566.96
3626544.52	113.24529	(19040823)		
487586.96	3626544.52	118.88413	(19040823)	487606.96
3626544.52	129.20844	(19040823)		
487626.96	3626544.52	130.42149	(19040823)	487646.96
3626544.52	130.92754	(19040823)		
487666.96	3626544.52	135.54750	(19040823)	487686.96
3626544.52	135.76146	(19040823)		
487706.96	3626544.52	147.36694	(19040823)	487726.96
3626544.52	155.42155	(19040823)		
487746.96	3626544.52	162.97288	(19040823)	487766.96
3626544.52	170.95205	(19040823)		
487786.96	3626544.52	180.50068	(19040823)	487806.96
3626544.52	193.72516	(19040823)		
487826.96	3626544.52	196.42730	(19040823)	487426.96
3626564.52	115.68604	(19022001)		
487446.96	3626564.52	115.66673	(19022001)	487466.96
3626564.52	117.29632	(19022001)		
487486.96	3626564.52	118.57055	(19022001)	487506.96
3626564.52	119.23597	(19022001)		
487526.96	3626564.52	116.99932	(19022001)	487546.96
3626564.52	111.24042	(19022001)		
487566.96	3626564.52	106.60157	(19022001)	487586.96
3626564.52	111.39204	(19022001)		
487606.96	3626564.52	132.35102	(19041421)	487626.96
3626564.52	121.00030	(19040823)		
487646.96	3626564.52	127.01416	(19040823)	487666.96
3626564.52	129.23789	(19040823)		
487686.96	3626564.52	135.89446	(19040823)	487706.96
3626564.52	143.03907	(19040823)		
487726.96	3626564.52	151.55820	(19040823)	487746.96
3626564.52	159.62217	(19040823)		
487766.96	3626564.52	168.06164	(19040823)	487786.96
3626564.52	185.00280	(19040823)		

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
487806.96	3626564.52	195.23680	(19040823)	487826.96
3626564.52	204.47043	(19040823)		
487846.96	3626564.52	214.34016	(19040823)	487866.96
3626564.52	226.29719	(19040823)		
487426.96	3626584.52	123.50095	(21012122)	487446.96
3626584.52	124.05772	(21012122)		
487466.96	3626584.52	125.62162	(21012122)	487486.96
3626584.52	124.66359	(21012122)		
487506.96	3626584.52	124.82916	(21012122)	487526.96
3626584.52	129.13347	(21012122)		
487546.96	3626584.52	111.57147	(21012122)	487566.96
3626584.52	111.53105	(21012122)		
487586.96	3626584.52	117.33274	(21012122)	487606.96
3626584.52	132.17329	(21012122)		
487626.96	3626584.52	122.90026	(21012122)	487646.96
3626584.52	126.56737	(21012122)		
487666.96	3626584.52	132.57329	(21012122)	487686.96
3626584.52	137.83364	(21012122)		
487706.96	3626584.52	133.97566	(21012122)	487726.96
3626584.52	146.98673	(21012122)		
487746.96	3626584.52	155.32129	(19040823)	487766.96
3626584.52	164.35041	(19040823)		
487786.96	3626584.52	175.19013	(19040823)	487806.96
3626584.52	186.13821	(19040823)		
487826.96	3626584.52	197.49015	(19040823)	487846.96
3626584.52	209.92232	(19040823)		
487866.96	3626584.52	223.75172	(19040823)	487886.96
3626584.52	237.37877	(19040823)		
487906.96	3626584.52	250.00851	(19040823)	487426.96

3626604.52	128.98762	(21012122)		
487446.96	3626604.52	131.41414	(21012122)	487466.96
3626604.52	133.49733	(21012122)		
487486.96	3626604.52	132.78562	(21012122)	487506.96
3626604.52	133.04789	(21012122)		
487526.96	3626604.52	135.50201	(21012122)	487546.96
3626604.52	122.30837	(21012122)		
487566.96	3626604.52	114.39924	(21012122)	487586.96
3626604.52	111.82799	(19050803)		
487606.96	3626604.52	122.39618	(21012122)	487626.96
3626604.52	128.73199	(21012122)		
487646.96	3626604.52	135.09093	(21012122)	487666.96
3626604.52	141.31865	(21012122)		
487686.96	3626604.52	146.78887	(21012122)	487706.96
3626604.52	150.41559	(21012122)		
487726.96	3626604.52	158.68569	(21012122)	487746.96
3626604.52	166.60626	(21012122)		
487766.96	3626604.52	173.55397	(21012122)	487786.96
3626604.52	179.36815	(21012122)		
487806.96	3626604.52	194.41677	(21012122)	487826.96
3626604.52	208.12602	(21012122)		
487846.96	3626604.52	214.33944	(21012122)	487866.96
3626604.52	225.18608	(21012122)		
487886.96	3626604.52	235.57094	(21012122)	487906.96
3626604.52	245.75366	(21012122)		
487926.96	3626604.52	258.07762	(21012122)	487406.96
3626624.52	129.25338	(21012122)		
487426.96	3626624.52	130.60487	(21012122)	487446.96
3626624.52	133.56745	(21012122)		
487466.96	3626624.52	135.07424	(21012122)	487486.96
3626624.52	136.36616	(21012122)		
487506.96	3626624.52	135.96572	(21012122)	487526.96
3626624.52	137.18515	(21012122)		
487546.96	3626624.52	127.87428	(21012122)	487566.96
3626624.52	112.90987	(19020205)		
487586.96	3626624.52	110.70239	(19020205)	487606.96
3626624.52	115.38974	(19020205)		
487626.96	3626624.52	126.42714	(19020205)	487646.96
3626624.52	133.95648	(19020205)		
487666.96	3626624.52	140.44898	(19020205)	487686.96
3626624.52	146.53351	(21012122)		
487706.96	3626624.52	152.99570	(21012122)	487726.96
3626624.52	160.36231	(21012122)		
487746.96	3626624.52	168.02385	(21012122)	487766.96
3626624.52	176.19651	(21012122)		
487786.96	3626624.52	185.41634	(21012122)	487806.96
3626624.52	213.19288	(21012122)		
487826.96	3626624.52	224.52390	(21012122)	487846.96
3626624.52	232.85123	(21012122)		
487866.96	3626624.52	229.16769	(21012122)	487886.96

3626624.52 240.97331 (21012122)
 *** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
487906.96	3626624.52	251.27197	(21012122)	487926.96
3626624.52	265.62062	(21012122)		
487946.96	3626624.52	285.17933	(21012122)	487406.96
3626644.52	128.38783	(20101601)		
487426.96	3626644.52	131.19486	(20101601)	487446.96
3626644.52	133.22927	(20101601)		
487466.96	3626644.52	132.96906	(20101601)	487486.96
3626644.52	135.17192	(20101601)		
487506.96	3626644.52	138.03771	(20101601)	487526.96
3626644.52	136.41390	(20101601)		
487546.96	3626644.52	118.64611	(21102401)	487566.96
3626644.52	109.19903	(21102401)		
487586.96	3626644.52	110.60452	(21102401)	487606.96
3626644.52	115.82332	(21102401)		
487626.96	3626644.52	121.14283	(21102401)	487646.96
3626644.52	133.37685	(21102401)		
487666.96	3626644.52	141.36429	(21102401)	487686.96
3626644.52	147.96504	(21102401)		
487706.96	3626644.52	159.03451	(21102401)	487726.96
3626644.52	166.04965	(21102401)		
487746.96	3626644.52	168.63521	(21102401)	487766.96

3626644.52	176.82043	(21102401)		
487786.96	3626644.52	205.99714	(21012122)	487806.96
3626644.52	215.55550	(21012122)		
487826.96	3626644.52	228.75873	(21012122)	487846.96
3626644.52	236.75864	(21012122)		
487866.96	3626644.52	227.37621	(21102401)	487886.96
3626644.52	240.37053	(21102401)		
487906.96	3626644.52	250.88107	(21112423)	487926.96
3626644.52	266.56038	(21112423)		
487946.96	3626644.52	286.42189	(21112423)	487966.96
3626644.52	302.48360	(21112423)		
487386.96	3626664.52	125.21849	(20101601)	487406.96
3626664.52	126.93083	(20101601)		
487426.96	3626664.52	128.83964	(20101601)	487446.96
3626664.52	131.32559	(20101601)		
487466.96	3626664.52	132.36302	(20101601)	487486.96
3626664.52	134.04410	(20101601)		
487506.96	3626664.52	134.06954	(20101601)	487526.96
3626664.52	128.33744	(21102401)		
487546.96	3626664.52	128.21850	(21102401)	487566.96
3626664.52	129.72424	(21102401)		
487586.96	3626664.52	122.09948	(21112423)	487606.96
3626664.52	124.78116	(21112423)		
487626.96	3626664.52	125.48331	(21112423)	487646.96
3626664.52	135.70511	(21112423)		
487666.96	3626664.52	144.46670	(21112423)	487686.96
3626664.52	155.44215	(21112423)		
487706.96	3626664.52	168.12080	(21102401)	487726.96
3626664.52	170.60140	(21112423)		
487746.96	3626664.52	183.83644	(21102401)	487766.96
3626664.52	196.26139	(21102401)		
487786.96	3626664.52	205.73363	(21112423)	487806.96
3626664.52	215.26011	(21112423)		
487826.96	3626664.52	225.83812	(21112423)	487846.96
3626664.52	236.56228	(21112423)		
487866.96	3626664.52	245.89627	(21112423)	487886.96
3626664.52	259.23654	(21112423)		
487906.96	3626664.52	272.74463	(21112423)	487926.96
3626664.52	283.60686	(21112423)		
487946.96	3626664.52	296.91213	(21112423)	487966.96
3626664.52	306.67200	(21112423)		
487986.96	3626664.52	327.26599	(21112423)	487386.96
3626684.52	123.63820	(20013121)		
487406.96	3626684.52	125.59961	(20013121)	487426.96
3626684.52	127.15788	(20013121)		
487446.96	3626684.52	128.18020	(20013121)	487466.96
3626684.52	129.59681	(20013121)		
487486.96	3626684.52	131.06312	(19110823)	487506.96
3626684.52	132.01215	(19110823)		
487526.96	3626684.52	130.35300	(21112423)	487546.96

3626684.52 134.82985 (21112423)
 487566.96 3626684.52 139.58730 (21112423) 487586.96
 3626684.52 143.38091 (21112423)
 487606.96 3626684.52 143.46338 (21112423) 487626.96
 3626684.52 138.75459 (21112423)
 487646.96 3626684.52 143.73803 (21112423) 487666.96
 3626684.52 151.22394 (21112423)
 487686.96 3626684.52 167.56394 (21112423) 487706.96
 3626684.52 176.64834 (21112423)

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
487726.96	3626684.52	184.73894	(21112423)	487746.96
3626684.52	197.74217	(21112423)		
487766.96	3626684.52	208.49437	(21112423)	487786.96
3626684.52	216.52200	(21112423)		
487806.96	3626684.52	225.13215	(21112423)	487826.96
3626684.52	234.93097	(21112423)		
487846.96	3626684.52	245.43370	(21112423)	487866.96
3626684.52	256.50243	(21112423)		
487886.96	3626684.52	268.57856	(21112423)	487906.96
3626684.52	280.97175	(21112423)		
487926.96	3626684.52	293.92850	(21112423)	487946.96
3626684.52	291.97777	(21112423)		
487966.96	3626684.52	308.62481	(21112423)	487986.96

3626684.52	314.32445	(21112423)		
488006.96	3626684.52	360.71644	(21020701)	487366.96
3626704.52	124.10028	(20012319)		
487386.96	3626704.52	126.94468	(20012319)	487406.96
3626704.52	130.14189	(20012319)		
487426.96	3626704.52	132.59709	(20012319)	487446.96
3626704.52	131.48310	(20012319)		
487466.96	3626704.52	133.15129	(20012319)	487486.96
3626704.52	135.56782	(21112423)		
487506.96	3626704.52	137.48484	(21112423)	487526.96
3626704.52	139.20767	(21112423)		
487546.96	3626704.52	141.19374	(21112423)	487566.96
3626704.52	145.22126	(21112423)		
487586.96	3626704.52	150.41201	(21112423)	487606.96
3626704.52	155.51127	(21112423)		
487626.96	3626704.52	156.29154	(21112423)	487646.96
3626704.52	149.91783	(21112423)		
487666.96	3626704.52	150.45004	(21112423)	487686.96
3626704.52	168.32073	(21112423)		
487706.96	3626704.52	178.69991	(21112423)	487726.96
3626704.52	191.38473	(21112423)		
487746.96	3626704.52	201.37810	(21112423)	487766.96
3626704.52	209.74107	(21112423)		
487786.96	3626704.52	216.80085	(21112423)	487806.96
3626704.52	224.01941	(21112423)		
487826.96	3626704.52	233.37566	(21112423)	487846.96
3626704.52	244.14979	(21112423)		
487866.96	3626704.52	255.72146	(21112423)	487886.96
3626704.52	267.59920	(21112423)		
487906.96	3626704.52	279.00449	(21112423)	487926.96
3626704.52	292.97309	(21112423)		
487946.96	3626704.52	308.09933	(21112423)	487966.96
3626704.52	309.79694	(21020701)		
487986.96	3626704.52	339.27485	(21020701)	488006.96
3626704.52	373.99744	(21020701)		
488026.96	3626704.52	416.27509	(21101502)	487386.96
3626724.52	128.64037	(20012319)		
487406.96	3626724.52	130.07887	(20012319)	487426.96
3626724.52	131.07303	(20012319)		
487446.96	3626724.52	133.47970	(21112423)	487466.96
3626724.52	136.28350	(21112423)		
487486.96	3626724.52	138.98533	(21112423)	487506.96
3626724.52	141.29547	(21112423)		
487526.96	3626724.52	142.66401	(21112423)	487546.96
3626724.52	145.16562	(21112423)		
487566.96	3626724.52	146.80531	(21112423)	487586.96
3626724.52	149.22357	(21112423)		
487606.96	3626724.52	149.96161	(21112423)	487626.96
3626724.52	154.37692	(21112423)		
487646.96	3626724.52	156.37666	(21112423)	487666.96

3626724.52 160.24725 (21112423)
 487686.96 3626724.52 166.30858 (21112423) 487706.96
 3626724.52 173.41892 (21112423)
 487726.96 3626724.52 185.11617 (21112423) 487746.96
 3626724.52 193.55563 (21112423)
 487766.96 3626724.52 200.61269 (21112423) 487786.96
 3626724.52 207.69951 (21112423)
 487806.96 3626724.52 216.27841 (21112423) 487826.96
 3626724.52 222.85367 (21112423)
 487846.96 3626724.52 234.17991 (21120107) 487866.96
 3626724.52 253.61562 (21120107)
 487886.96 3626724.52 271.70265 (21120107) 487906.96
 3626724.52 277.28488 (21120107)
 487926.96 3626724.52 294.21788 (21020701) 487946.96
 3626724.52 306.83221 (21020701)
 487966.96 3626724.52 320.86271 (21101502) 487986.96
 3626724.52 351.62502 (21101502)

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23
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 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
488006.96	3626724.52	385.09393 (21101502)	488026.96
3626724.52	440.87088 (19121406)		
488046.96	3626724.52	511.71710 (19120404)	487406.96
3626744.52	126.96245 (21112423)		
487426.96	3626744.52	128.60689 (21112423)	487446.96

3626744.52	131.33244	(21112423)		
487466.96	3626744.52	133.74771	(21112423)	487486.96
3626744.52	136.01045	(21112423)		
487506.96	3626744.52	137.78504	(21112423)	487526.96
3626744.52	138.58364	(21112423)		
487546.96	3626744.52	141.47936	(21112423)	487566.96
3626744.52	143.81828	(21112423)		
487586.96	3626744.52	141.69957	(21112423)	487606.96
3626744.52	140.60611	(21112423)		
487626.96	3626744.52	144.88720	(21112423)	487646.96
3626744.52	148.16472	(21112423)		
487666.96	3626744.52	151.66430	(21112423)	487686.96
3626744.52	155.59957	(21112423)		
487706.96	3626744.52	160.14284	(21112423)	487726.96
3626744.52	173.36847	(21120107)		
487746.96	3626744.52	188.37770	(21120107)	487766.96
3626744.52	201.46180	(21120107)		
487786.96	3626744.52	216.39839	(21120107)	487806.96
3626744.52	231.98501	(21120107)		
487826.96	3626744.52	238.28508	(21120107)	487846.96
3626744.52	244.42730	(21020701)		
487866.96	3626744.52	262.23764	(21020701)	487886.96
3626744.52	281.63127	(21020701)		
487906.96	3626744.52	290.12926	(21020701)	487926.96
3626744.52	298.14760	(21020701)		
487946.96	3626744.52	307.43575	(21101502)	487966.96
3626744.52	330.49192	(21101502)		
487986.96	3626744.52	362.69574	(19121406)	488006.96
3626744.52	412.88024	(19121406)		
488026.96	3626744.52	462.78782	(19121406)	488046.96
3626744.52	555.54264	(19120405)		
488066.96	3626744.52	667.15609	(19120405)	487446.96
3626764.52	129.01878	(19091906)		
487466.96	3626764.52	131.96620	(19091906)	487486.96
3626764.52	132.59466	(19091906)		
487506.96	3626764.52	131.87924	(19091906)	487526.96
3626764.52	133.12638	(19091906)		
487546.96	3626764.52	137.35351	(19091906)	487566.96
3626764.52	138.50340	(19091906)		
487586.96	3626764.52	137.99378	(19091906)	487606.96
3626764.52	134.23141	(19040206)		
487626.96	3626764.52	138.24125	(21120107)	487646.96
3626764.52	146.66584	(21120107)		
487666.96	3626764.52	155.64146	(21120107)	487686.96
3626764.52	163.61814	(21120107)		
487706.96	3626764.52	168.89909	(21120107)	487726.96
3626764.52	180.84542	(21120107)		
487746.96	3626764.52	194.83008	(21120107)	487766.96
3626764.52	209.45711	(21120107)		
487786.96	3626764.52	226.47462	(21120107)	487806.96

3626764.52	237.26545	(21020701)			
487826.96	3626764.52	251.83446	(21020701)		487846.96
3626764.52	261.97238	(21020701)			
487866.96	3626764.52	267.08522	(21020701)		487886.96
3626764.52	279.33853	(21020701)			
487906.96	3626764.52	291.14731	(21101502)		487926.96
3626764.52	310.14426	(21101502)			
487946.96	3626764.52	313.39262	(19121406)		487966.96
3626764.52	362.75672	(19121406)			
487986.96	3626764.52	411.03179	(19121406)		488006.96
3626764.52	459.70791	(19121406)			
488026.96	3626764.52	516.63671	(19120405)		488046.96
3626764.52	572.33419	(19120405)			
488066.96	3626764.52	704.28387	(19120716)		488086.96
3626764.52	979.78176	(19120716)			
487466.96	3626784.52	126.95607	(19091906)		487486.96
3626784.52	126.60287	(19091906)			
487506.96	3626784.52	127.58126	(19091906)		487526.96
3626784.52	130.29440	(19091906)			
487546.96	3626784.52	134.93461	(21120107)		487566.96
3626784.52	140.74611	(21120107)			
487586.96	3626784.52	146.52919	(21120107)		487606.96
3626784.52	152.77245	(21120107)			
487626.96	3626784.52	159.77445	(21120107)		487646.96
3626784.52	165.02254	(21120107)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)	
487666.96	3626784.52	168.35417	(21120107) 487686.96
3626784.52	174.93237	(21120107)	
487706.96	3626784.52	182.48729	(21120107) 487726.96
3626784.52	188.80415	(21020701)	
487746.96	3626784.52	200.62080	(21020701) 487766.96
3626784.52	215.34338	(21020701)	
487786.96	3626784.52	233.27742	(21020701) 487806.96
3626784.52	244.12210	(21020701)	
487826.96	3626784.52	254.82569	(21020701) 487846.96
3626784.52	264.29051	(21020701)	
487866.96	3626784.52	271.16584	(21101502) 487886.96
3626784.52	284.04083	(21101502)	
487906.96	3626784.52	297.61932	(20122119) 487926.96
3626784.52	316.23876	(19121406)	
487946.96	3626784.52	354.94454	(19121406) 487966.96
3626784.52	392.99145	(19121406)	
487986.96	3626784.52	431.70152	(19121406) 488006.96
3626784.52	493.00064	(19120405)	
488026.96	3626784.52	575.85277	(19120405) 488046.96
3626784.52	585.43689	(19120405)	
487506.96	3626804.52	135.97707	(21120107) 487526.96
3626804.52	144.01454	(21120107)	
487546.96	3626804.52	148.28700	(21120107) 487566.96
3626804.52	153.20937	(21120107)	
487586.96	3626804.52	158.25782	(21120107) 487606.96
3626804.52	163.32193	(21120107)	
487626.96	3626804.52	171.14418	(21120107) 487646.96
3626804.52	173.24295	(21120107)	
487666.96	3626804.52	175.68674	(21020701) 487686.96
3626804.52	184.90285	(21020701)	
487706.96	3626804.52	196.62615	(21020701) 487726.96
3626804.52	202.06818	(21020701)	
487746.96	3626804.52	206.35111	(21020701) 487766.96
3626804.52	219.36309	(21020701)	
487786.96	3626804.52	230.21934	(19050905) 487806.96
3626804.52	238.96284	(19050905)	
487826.96	3626804.52	249.18953	(21101502) 487846.96
3626804.52	266.39816	(21090905)	
487866.96	3626804.52	286.35051	(20122119) 487886.96
3626804.52	294.05364	(20122119)	
487906.96	3626804.52	319.10567	(19121406) 487926.96
3626804.52	347.97420	(19121406)	
487946.96	3626804.52	376.60427	(19121406) 487966.96
3626804.52	421.68176	(19120404)	
487986.96	3626804.52	466.71162	(19120405) 487526.96
3626824.52	150.53607	(21120107)	
487546.96	3626824.52	156.04433	(21120107) 487566.96

3626824.52	160.18689	(21120107)			
487586.96	3626824.52	162.27516	(21120107)		487606.96
3626824.52	162.82509	(21020701)			
487626.96	3626824.52	172.04201	(21020701)		487646.96
3626824.52	177.89877	(21020701)			
487666.96	3626824.52	183.27642	(21020701)		487686.96
3626824.52	189.53754	(21020701)			
487706.96	3626824.52	195.92885	(21020701)		487726.96
3626824.52	205.53105	(19050905)			
487746.96	3626824.52	213.59920	(19050905)		487766.96
3626824.52	218.09759	(21101502)			
487786.96	3626824.52	226.37471	(21101502)		487806.96
3626824.52	241.42889	(21090905)			
487826.96	3626824.52	257.98852	(20122119)		487846.96
3626824.52	275.33095	(20122119)			
487866.96	3626824.52	292.64837	(19121406)		487886.96
3626824.52	320.79967	(19121406)			
487546.96	3626844.52	155.26928	(21120107)		487566.96
3626844.52	160.91593	(21020701)			
487586.96	3626844.52	165.79827	(21020701)		487606.96
3626844.52	169.46667	(21020701)			
487626.96	3626844.52	175.20561	(21020701)		487646.96
3626844.52	178.43653	(21020701)			
487666.96	3626844.52	182.66004	(19050905)		487686.96
3626844.52	188.52559	(19050905)			
487706.96	3626844.52	191.52903	(19050905)		487726.96
3626844.52	201.63448	(21101502)			
487746.96	3626844.52	214.03857	(21090905)		487766.96
3626844.52	223.54071	(21090905)			
487786.96	3626844.52	235.09391	(20122119)		487806.96
3626844.52	248.79493	(20122119)			
487826.96	3626844.52	261.58769	(19121406)		487846.96
3626844.52	286.16729	(19121406)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
3626864.52	487546.96	3626864.52	161.21380	(21020701)	487566.96
3626864.52	163.46045	(21020701)			
3626864.52	487586.96	3626864.52	165.84662	(21020701)	487606.96
3626864.52	168.81856	(19050905)			
3626864.52	487626.96	3626864.52	172.99768	(19050905)	487646.96
3626864.52	174.44438	(19050905)			
3626864.52	487666.96	3626864.52	179.32447	(21101502)	487686.96
3626864.52	189.27888	(21090905)			
3626864.52	487706.96	3626864.52	197.39172	(21090905)	487726.96
3626864.52	206.39210	(21090905)			
3626864.52	487746.96	3626864.52	217.23465	(20122119)	487766.96
3626864.52	227.44896	(20122119)			
3626864.52	487786.96	3626864.52	239.02453	(20122119)	487806.96
3626864.52	258.39959	(19121406)			
3626884.52	487566.96	3626884.52	162.89050	(19050905)	487586.96
3626884.52	162.47262	(19050905)			
3626884.52	487606.96	3626884.52	163.69270	(19050905)	487626.96
3626884.52	172.51025	(21090905)			
3626884.52	487646.96	3626884.52	179.30510	(21090905)	487666.96
3626884.52	185.38672	(21090905)			
3626884.52	487686.96	3626884.52	192.31735	(21090905)	487706.96
3626884.52	200.18078	(20122119)			
3626884.52	487726.96	3626884.52	210.37942	(20122119)	487746.96
3626884.52	218.12894	(20122119)			
3626884.52	487766.96	3626884.52	235.55975	(19121406)	487786.96
3626884.52	254.07363	(19121406)			
3626904.52	487586.96	3626904.52	162.66965	(21090905)	487606.96
3626904.52	169.15850	(21090905)			
3626904.52	487626.96	3626904.52	179.38913	(21090905)	487646.96
3626904.52	184.19420	(21090905)			
3626904.52	487666.96	3626904.52	192.52425	(20122119)	487686.96
3626904.52	199.82205	(20122119)			
3626904.52	487706.96	3626904.52	202.52678	(20122119)	487726.96
3626904.52	215.86958	(19121406)			
3626904.52	487746.96	3626904.52	231.20972	(19121406)	487766.96
3626904.52	243.65208	(19121406)			
3626924.52	487626.96	3626924.52	181.40886	(20122119)	487646.96
3626924.52	189.60207	(20122119)			
	487666.96	3626924.52	195.15722	(20122119)	487686.96

3626924.52	201.96698	(19121406)			
487706.96	3626924.52	214.90435	(19121406)		487726.96
3626924.52	226.35024	(19121406)			
487746.96	3626924.52	233.46690	(19121406)		487646.96
3626944.52	186.35618	(19121406)			
487666.96	3626944.52	199.42634	(19121406)		487686.96
3626944.52	210.35906	(19121406)			
487706.96	3626944.52	219.19968	(19121406)		487726.96
3626944.52	228.17196	(19020306)			
487666.96	3626964.52	202.97907	(19121406)		487686.96
3626964.52	207.94352	(19020306)			
487706.96	3626964.52	223.21812	(19020306)		487686.96
3626984.52	217.71439	(19120404)			
488242.19	3625436.42	103.96772	(19032623)		488262.19
3625436.42	105.17249	(19032623)			
488242.19	3625456.42	106.44850	(19032623)		488262.19
3625456.42	107.00199	(19032623)			
488282.19	3625456.42	97.14472	(20012720)		488302.19
3625456.42	98.54265	(19110723)			
488322.19	3625456.42	100.29277	(19110723)		488242.19
3625476.42	108.99816	(19032623)			
488262.19	3625476.42	108.84764	(19032623)		488282.19
3625476.42	99.37054	(21080305)			
488302.19	3625476.42	101.35380	(19110723)		488322.19
3625476.42	102.03279	(19110723)			
488342.19	3625476.42	100.51106	(21010519)		488362.19
3625476.42	113.60186	(19080704)			
488242.19	3625496.42	111.61951	(19032623)		488262.19
3625496.42	110.70024	(19032623)			
488282.19	3625496.42	102.00525	(21080305)		488302.19
3625496.42	104.15280	(19110723)			
488322.19	3625496.42	103.65301	(19110723)		488342.19
3625496.42	102.07387	(20091122)			
488362.19	3625496.42	117.66109	(19080704)		488382.19
3625496.42	118.18350	(19080704)			
488402.19	3625496.42	104.65928	(20070402)		488422.19
3625496.42	105.96229	(20070402)			
488242.19	3625516.42	114.31962	(19032623)		488262.19
3625516.42	112.56484	(19032623)			
488282.19	3625516.42	104.70380	(21080305)		488302.19
3625516.42	107.01077	(19110723)			

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 Parkway Bridge Project EIR\ *** 12/21/23
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
488322.19	3625516.42	105.29978	(20091122)	488342.19
3625516.42	106.19452	(19080704)		
488362.19	3625516.42	121.54356	(19080704)	488382.19
3625516.42	119.12839	(19080704)		
488402.19	3625516.42	108.40186	(20070402)	488422.19
3625516.42	106.94391	(20070402)		
488442.19	3625516.42	103.01415	(20060224)	488462.19
3625516.42	105.17536	(20021420)		
488482.19	3625516.42	106.71896	(21082705)	488222.19
3625536.42	107.28327	(20070303)		
488242.19	3625536.42	117.09378	(19032623)	488262.19
3625536.42	114.43431	(19032623)		
488282.19	3625536.42	107.45434	(21080305)	488302.19
3625536.42	109.89824	(19110723)		
488322.19	3625536.42	108.19396	(20091122)	488342.19
3625536.42	111.73410	(19080704)		
488362.19	3625536.42	125.17687	(19080704)	488382.19
3625536.42	119.57374	(19080704)		
488402.19	3625536.42	111.82309	(20070402)	488422.19
3625536.42	107.36263	(20070402)		
488442.19	3625536.42	106.48038	(20060224)	488462.19
3625536.42	108.94155	(20021420)		
488482.19	3625536.42	110.96143	(21082705)	488502.19
3625536.42	113.95712	(21110719)		
488522.19	3625536.42	119.29094	(19052822)	488542.19
3625536.42	117.41853	(19052822)		
488222.19	3625556.42	109.90399	(20070303)	488242.19
3625556.42	119.93641	(19032623)		
488262.19	3625556.42	116.29862	(19032623)	488282.19
3625556.42	110.21943	(21080305)		
488302.19	3625556.42	112.73268	(19110723)	488322.19

3625556.42	111.00033	(20091122)		
488342.19	3625556.42	117.27973	(19080704)	488362.19
3625556.42	128.44398	(19080704)		
488382.19	3625556.42	119.42198	(19080704)	488402.19
3625556.42	114.71101	(20070402)		
488422.19	3625556.42	108.63223	(21122219)	488442.19
3625556.42	109.30124	(20060224)		
488462.19	3625556.42	111.98990	(20021420)	488482.19
3625556.42	114.24344	(21082705)		
488502.19	3625556.42	117.48051	(21110719)	488522.19
3625556.42	123.40220	(19052822)		
488542.19	3625556.42	116.00492	(19052822)	488562.19
3625556.42	110.71945	(19101221)		
488202.19	3625576.42	112.17820	(20091504)	488222.19
3625576.42	112.56754	(20070303)		
488242.19	3625576.42	122.85605	(19032623)	488262.19
3625576.42	118.16012	(19032623)		
488282.19	3625576.42	113.00593	(21080305)	488302.19
3625576.42	115.55570	(19110723)		
488322.19	3625576.42	113.73825	(20091122)	488342.19
3625576.42	122.79475	(19080704)		
488362.19	3625576.42	131.30690	(19080704)	488382.19
3625576.42	118.70353	(19080704)		
488402.19	3625576.42	117.13843	(20070402)	488422.19
3625576.42	110.89512	(21122219)		
488442.19	3625576.42	111.41806	(20060224)	488462.19
3625576.42	114.19431	(20021420)		
488482.19	3625576.42	116.39813	(21082705)	488502.19
3625576.42	120.59041	(19052822)		
488522.19	3625576.42	125.97687	(19052822)	488542.19
3625576.42	113.40994	(19032522)		
488562.19	3625576.42	113.47450	(19101221)	488582.19
3625576.42	114.45943	(19091303)		
488122.19	3625596.42	114.48115	(21102122)	488142.19
3625596.42	113.98365	(19082103)		
488162.19	3625596.42	115.56446	(19082103)	488182.19
3625596.42	115.85201	(20113019)		
488202.19	3625596.42	114.93623	(20091504)	488222.19
3625596.42	115.29905	(20070303)		
488242.19	3625596.42	125.85404	(19032623)	488262.19
3625596.42	120.01572	(19032623)		
488282.19	3625596.42	115.80909	(21080305)	488302.19
3625596.42	118.35250	(19110723)		
488322.19	3625596.42	116.38846	(20091122)	488342.19
3625596.42	128.22096	(19080704)		
488362.19	3625596.42	133.70220	(19080704)	488382.19
3625596.42	117.38884	(19080704)		
488402.19	3625596.42	119.01472	(20070402)	488422.19
3625596.42	112.59491	(21122219)		

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
488522.19	3625596.42	126.78822	(19052822)	488542.19
3625596.42	114.80459	(19101221)		
488562.19	3625596.42	115.12614	(19091303)	488582.19
3625596.42	115.62907	(19091303)		
488602.19	3625596.42	115.14737	(20060721)	488062.19
3625616.42	113.04236	(20090823)		
488082.19	3625616.42	115.45525	(20021323)	488102.19
3625616.42	113.47038	(21121021)		
488122.19	3625616.42	117.20782	(21102122)	488142.19
3625616.42	116.20237	(19082103)		
488162.19	3625616.42	118.42985	(19082103)	488182.19
3625616.42	118.69616	(20113019)		
488202.19	3625616.42	117.72357	(20091504)	488222.19
3625616.42	118.10415	(20070303)		
488242.19	3625616.42	128.91603	(19032623)	488262.19
3625616.42	121.84623	(19032623)		
488282.19	3625616.42	118.62258	(21080305)	488302.19
3625616.42	121.06869	(19110723)		
488322.19	3625616.42	118.91338	(20091122)	488342.19
3625616.42	133.52359	(19080704)		
488362.19	3625616.42	135.62060	(19080704)	488382.19
3625616.42	121.35384	(20070402)		
488402.19	3625616.42	119.90400	(20070402)	488522.19

3625616.42	125.65045	(19052822)		
488542.19	3625616.42	119.37080	(19101221)	488562.19
3625616.42	120.13967	(19091303)		
488582.19	3625616.42	119.11432	(20060721)	488602.19
3625616.42	114.50255	(20060721)		
488062.19	3625636.42	115.20360	(20090823)	488082.19
3625636.42	117.84205	(20021323)		
488102.19	3625636.42	115.84523	(21121021)	488122.19
3625636.42	119.96440	(21102122)		
488142.19	3625636.42	118.46292	(19082103)	488162.19
3625636.42	121.37815	(19082103)		
488182.19	3625636.42	121.63115	(20113019)	488202.19
3625636.42	120.58137	(20091504)		
488222.19	3625636.42	120.98251	(20070303)	488242.19
3625636.42	132.04739	(19032623)		
488262.19	3625636.42	123.66027	(19032623)	488282.19
3625636.42	121.45311	(21080305)		
488302.19	3625636.42	123.73324	(19110723)	488322.19
3625636.42	121.29859	(20091122)		
488342.19	3625636.42	138.61411	(19080704)	488362.19
3625636.42	136.95669	(19080704)		
488382.19	3625636.42	125.61681	(20070402)	488522.19
3625636.42	122.48499	(19052822)		
488542.19	3625636.42	122.36928	(19101221)	488562.19
3625636.42	123.15669	(19091303)		
488582.19	3625636.42	122.14570	(20060721)	488602.19
3625636.42	116.92681	(20081905)		
488622.19	3625636.42	116.41719	(21041522)	488062.19
3625656.42	117.16212	(20090823)		
488082.19	3625656.42	120.13332	(20021323)	488102.19
3625656.42	118.17039	(21121021)		
488122.19	3625656.42	122.74443	(21102122)	488142.19
3625656.42	120.97235	(19100421)		
488162.19	3625656.42	124.41931	(19082103)	488182.19
3625656.42	124.66391	(20113019)		
488202.19	3625656.42	123.51839	(20091504)	488222.19
3625656.42	124.05062	(19032623)		
488242.19	3625656.42	135.24844	(19032623)	488262.19
3625656.42	125.45195	(19032623)		
488282.19	3625656.42	124.29402	(21080305)	488302.19
3625656.42	126.32999	(19110723)		
488322.19	3625656.42	124.56939	(19080704)	488342.19
3625656.42	143.41265	(19080704)		
488362.19	3625656.42	137.64551	(19080704)	488382.19
3625656.42	129.38646	(20070402)		
488522.19	3625656.42	124.14796	(19101221)	488542.19
3625656.42	124.91195	(20011720)		
488582.19	3625656.42	122.85774	(20060721)	488602.19
3625656.42	118.03595	(21041522)		
488622.19	3625656.42	118.81735	(20051104)	488642.19

3625656.42 131.50127 (20102522)
 488062.19 3625676.42 119.10903 (20090823) 488082.19
 3625676.42 122.31106 (20021323)
 488102.19 3625676.42 120.45313 (20021323) 488122.19
 3625676.42 125.51293 (21102122)
 488142.19 3625676.42 123.93010 (19100421) 488162.19
 3625676.42 127.53958 (19082103)

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 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
488182.19	3625676.42	127.80665	(20113019)	488202.19
3625676.42	126.58271 (20091504)			
488222.19	3625676.42	127.81971	(19032623)	488242.19
3625676.42	138.55057 (19032623)			
488262.19	3625676.42	127.23511	(19032623)	488282.19
3625676.42	128.18990 (19110723)			
488302.19	3625676.42	128.82737	(19110723)	488322.19
3625676.42	131.69327 (19080704)			
488342.19	3625676.42	147.86047	(19080704)	488362.19
3625676.42	137.64034 (19080704)			
488382.19	3625676.42	132.62083	(20070402)	488582.19
3625676.42	123.54204 (20081905)			
488602.19	3625676.42	122.71799	(21041522)	488622.19
3625676.42	126.29455 (20102522)			
488642.19	3625676.42	137.68842	(20102522)	488062.19

3625696.42	122.06025	(20091324)		
488082.19	3625696.42	124.35203	(20021323)	488102.19
3625696.42	124.15396	(20021323)		
488122.19	3625696.42	128.27438	(21102122)	488142.19
3625696.42	126.95366	(19100421)		
488162.19	3625696.42	130.76952	(19082103)	488182.19
3625696.42	131.07966	(20113019)		
488202.19	3625696.42	129.76313	(20091504)	488222.19
3625696.42	131.73815	(19032623)		
488242.19	3625696.42	141.92684	(19032623)	488262.19
3625696.42	129.75946	(20012720)		
488282.19	3625696.42	132.42931	(19110723)	488302.19
3625696.42	131.60459	(20091122)		
488322.19	3625696.42	138.88267	(19080704)	488342.19
3625696.42	151.86112	(19080704)		
488362.19	3625696.42	136.87253	(19080704)	488382.19
3625696.42	135.08776	(20070402)		
488582.19	3625696.42	125.61511	(20081905)	488602.19
3625696.42	124.50857	(21041522)		
488622.19	3625696.42	137.56844	(20102522)	488642.19
3625696.42	139.51329	(20102522)		
488662.19	3625696.42	134.05656	(19082901)	488042.19
3625716.42	122.62447	(19032423)		
488142.19	3625716.42	130.04072	(19100421)	488162.19
3625716.42	134.11632	(19082103)		
488182.19	3625716.42	134.49595	(20113019)	488202.19
3625716.42	133.06514	(20091504)		
488222.19	3625716.42	135.80940	(19032623)	488242.19
3625716.42	145.36787	(19032623)		
488262.19	3625716.42	132.84664	(20012720)	488282.19
3625716.42	136.69129	(19110723)		
488302.19	3625716.42	135.63072	(20091122)	488322.19
3625716.42	146.06760	(19080704)		
488342.19	3625716.42	155.32318	(19080704)	488362.19
3625716.42	137.26640	(20070402)		
488382.19	3625716.42	136.64570	(20070402)	488602.19
3625716.42	130.99906	(20102522)		
488622.19	3625716.42	145.12008	(20102522)	488642.19
3625716.42	136.52551	(20102522)		
488662.19	3625716.42	141.88799	(19082901)	488682.19
3625716.42	134.21910	(19082901)		
488022.19	3625736.42	123.94533	(20111904)	488042.19
3625736.42	124.79393	(19032423)		
488182.19	3625736.42	138.05907	(20113019)	488202.19
3625736.42	136.53578	(20091504)		
488222.19	3625736.42	140.07035	(19032623)	488242.19
3625736.42	148.92594	(19032623)		
488262.19	3625736.42	136.79925	(21080305)	488282.19
3625736.42	141.06289	(19110723)		
488302.19	3625736.42	139.65637	(20091122)	488322.19

3625736.42 153.17127 (19080704)
 488362.19 3625736.42 142.46036 (20070402) 488382.19
 3625736.42 137.30511 (20070402)
 488402.19 3625736.42 136.46748 (20060224) 488602.19
 3625736.42 144.06098 (20102522)
 488622.19 3625736.42 147.86031 (20102522) 488642.19
 3625736.42 141.61642 (19082901)
 488662.19 3625736.42 144.42276 (19082901) 488682.19
 3625736.42 126.21946 (19082901)
 488702.19 3625736.42 125.72891 (21103121) 488802.19
 3625756.42 124.20723 (19110122)
 488022.19 3625756.42 127.42488 (20111904) 488182.19
 3625756.42 141.77277 (20113019)
 488202.19 3625756.42 140.15305 (20091504) 488222.19
 3625756.42 144.50593 (19032623)

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
 Parkway Bridge Project EIR\ *** 12/21/23

*** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
488242.19	3625756.42	152.56546	(19032623)	488262.19
3625756.42	141.27566	(21080305)		
488282.19	3625756.42	145.44046	(19110723)	488382.19
3625756.42	140.00509	(21122219)		
488602.19	3625756.42	153.16150	(20102522)	488622.19
3625756.42	145.18093	(20102522)		
488642.19	3625756.42	150.03108	(19082901)	488662.19

3625756.42	141.03834	(19082901)		
488682.19	3625756.42	130.29335	(21103121)	488702.19
3625756.42	126.79821	(20050620)		
487982.19	3625776.42	125.51479	(21120123)	488002.19
3625776.42	126.61268	(19110122)		
488222.19	3625776.42	149.11068	(19032623)	488242.19
3625776.42	156.26500	(19032623)		
488262.19	3625776.42	145.82491	(21080305)	488622.19
3625776.42	149.86818	(19082901)		
488642.19	3625776.42	152.50166	(19082901)	488662.19
3625776.42	131.85890	(19082901)		
488682.19	3625776.42	132.31184	(21103121)	488702.19
3625776.42	128.74915	(20050620)		
488722.19	3625776.42	126.38490	(19100221)	487982.19
3625796.42	126.79594	(21120123)		
488222.19	3625796.42	153.91174	(19032623)	488242.19
3625796.42	160.05651	(19032623)		
488262.19	3625796.42	150.47069	(21080305)	488622.19
3625796.42	158.66078	(19082901)		
488642.19	3625796.42	148.35720	(19082901)	488662.19
3625796.42	138.17329	(21103121)		
488682.19	3625796.42	134.28882	(20050620)	488702.19
3625796.42	130.86698	(21091802)		
488722.19	3625796.42	132.92736	(19100221)	488742.19
3625796.42	136.13795	(21081502)		
488222.19	3625816.42	158.91513	(19032623)	488242.19
3625816.42	163.92988	(19032623)		
488262.19	3625816.42	155.17322	(21080305)	488642.19
3625816.42	140.50190	(21103121)		
488662.19	3625816.42	139.17270	(21103121)	488682.19
3625816.42	134.60773	(20050620)		
488702.19	3625816.42	135.91612	(19100221)	488722.19
3625816.42	138.84175	(21081502)		
488742.19	3625816.42	136.92770	(21081502)	488762.19
3625816.42	130.28305	(19072703)		
488202.19	3625836.42	155.93274	(20091504)	488222.19
3625836.42	164.11957	(19032623)		
488242.19	3625836.42	167.87036	(19032623)	488662.19
3625836.42	142.00008	(20050620)		
488682.19	3625836.42	138.34487	(21091802)	488702.19
3625836.42	140.54140	(19100221)		
488722.19	3625836.42	143.79583	(21081502)	488742.19
3625836.42	136.27882	(19072703)		
488762.19	3625836.42	129.64751	(19040321)	488782.19
3625836.42	132.19973	(20112002)		
488202.19	3625856.42	160.37805	(20091504)	488222.19
3625856.42	169.58686	(19032623)		
488242.19	3625856.42	171.66296	(19032623)	488682.19
3625856.42	145.54560	(19100221)		
488702.19	3625856.42	148.82486	(21081502)	488722.19

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3625856.42      140.91402 (21081502)
                488742.19  3625856.42      133.85037 (19040321)      488762.19
3625856.42      136.23355 (20112002)
                488782.19  3625856.42      130.99931 (19100520)      488802.19
3625856.42      127.21964 (19101421)
                488822.19  3625856.42      124.70708 (19101421)      488202.19
3625876.42      165.12400 (20091504)
                488222.19  3625876.42      175.32026 (19032623)      488662.19
3625876.42      148.09133 (19100221)
                488682.19  3625876.42      151.60415 (21081502)      488702.19
3625876.42      150.28063 (21081502)
                488722.19  3625876.42      141.79458 (19072703)      488742.19
3625876.42      139.27455 (20112002)
                488762.19  3625876.42      137.83049 (20112002)      488782.19
3625876.42      133.20189 (19100520)
                488802.19  3625876.42      130.15102 (19101421)      488822.19
3625876.42      126.27786 (20121618)
                488842.19  3625876.42      120.27674 (21110505)      488202.19
3625896.42      170.26890 (20091504)
                488222.19  3625896.42      181.34474 (19032623)      488642.19
3625896.42      152.62496 (21091802)
                488662.19  3625896.42      155.07105 (19100221)      488682.19
3625896.42      158.06984 (21081502)

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*** AERMOD - VERSION 23132 ***      *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

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*** 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      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

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X-COORD (M) Y-COORD (M)      CONC      (YYMMDDHH)      X-COORD (M)
Y-COORD (M)      CONC      (YYMMDDHH)
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488702.19	3625896.42	149.01884	(19072703)	488722.19
3625896.42	141.61157	(19040321)		
488742.19	3625896.42	144.18803	(20112002)	488762.19
3625896.42	138.99928	(19100520)		
488782.19	3625896.42	135.39529	(19101421)	488802.19
3625896.42	130.78975	(20121618)		
488822.19	3625896.42	124.44664	(21110505)	488842.19
3625896.42	126.84769	(21073103)		
488862.19	3625896.42	122.02164	(21073103)	488882.19
3625896.42	118.98540	(20081323)		
488902.19	3625896.42	117.58897	(21092305)	488202.19
3625916.42	175.55512	(20091504)		
488222.19	3625916.42	187.63111	(19032623)	488642.19
3625916.42	159.98108	(19100221)		
488662.19	3625916.42	163.64017	(21081502)	488682.19
3625916.42	155.15679	(21081502)		
488702.19	3625916.42	147.22931	(20071101)	488762.19
3625916.42	140.28750	(19101421)		
488782.19	3625916.42	135.08584	(20121618)	488802.19
3625916.42	128.61545	(21110505)		
488822.19	3625916.42	130.64864	(21073103)	488842.19
3625916.42	126.94539	(21073103)		
488862.19	3625916.42	123.48410	(20081323)	488882.19
3625916.42	121.60912	(20021319)		
488902.19	3625916.42	119.09254	(19101420)	488922.19
3625916.42	115.33019	(21040420)		
488942.19	3625916.42	118.30734	(19042003)	488222.19
3625936.42	194.17436	(19032623)		
488622.19	3625936.42	162.29147	(21091802)	488642.19
3625936.42	166.38309	(21081502)		
488662.19	3625936.42	165.99930	(21081502)	488682.19
3625936.42	155.13796	(19072703)		
488782.19	3625936.42	134.61242	(20121618)	488802.19
3625936.42	134.64029	(20071102)		
488822.19	3625936.42	132.05523	(20071102)	488842.19
3625936.42	128.20265	(20081323)		
488862.19	3625936.42	125.81844	(20021319)	488882.19
3625936.42	123.11027	(19101420)		
488902.19	3625936.42	119.00773	(21040420)	488922.19
3625936.42	122.23952	(19042003)		
488942.19	3625936.42	119.84924	(19042003)	488962.19
3625936.42	112.95867	(20041924)		
488982.19	3625936.42	109.46734	(21091202)	489002.19
3625936.42	106.16417	(21120219)		
488602.19	3625956.42	168.48321	(21091802)	488622.19
3625956.42	171.91891	(19100221)		
488642.19	3625956.42	174.86450	(21081502)	488662.19
3625956.42	163.84962	(19072703)		
488782.19	3625956.42	138.64738	(20071102)	488802.19

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
489102.19	3625976.42	96.62062	(21020920)	489122.19
3625976.42	96.33465	(21020920)		
488802.19	3625996.42	139.80424	(20021319)	488822.19
3625996.42	136.58301	(19101420)		
488842.19	3625996.42	131.27553	(21102119)	488922.19
3625996.42	120.00054	(21091202)		
488942.19	3625996.42	116.93645	(19082501)	488962.19
3625996.42	115.99198	(21070304)		
488982.19	3625996.42	113.94147	(21070304)	489002.19
3625996.42	109.29569	(20101020)		
489022.19	3625996.42	110.09650	(19030322)	489042.19
3625996.42	108.09276	(19030322)		
489062.19	3625996.42	101.93287	(19030322)	489082.19
3625996.42	100.20991	(21020920)		
489102.19	3625996.42	98.78022	(21020920)	489122.19
3625996.42	97.38014	(20062624)		
489142.19	3625996.42	95.28363	(20062624)	488802.19
3626016.42	141.60386	(19101420)		
488822.19	3626016.42	136.03899	(21102119)	488842.19
3626016.42	140.22557	(19042003)		
488982.19	3626016.42	112.42582	(20101020)	489002.19
3626016.42	113.52110	(19030322)		
489022.19	3626016.42	110.10393	(19030322)	489042.19
3626016.42	104.42557	(20012621)		
489062.19	3626016.42	103.54086	(21020920)	489082.19
3626016.42	100.86512	(21020920)		
489102.19	3626016.42	100.13620	(20062624)	489122.19
3626016.42	96.73698	(20062624)		
489142.19	3626016.42	94.25456	(19050724)	488782.19
3626036.42	146.90498	(19101420)		
488802.19	3626036.42	141.12319	(19042003)	488822.19
3626036.42	145.48877	(19042003)		
488842.19	3626036.42	140.28744	(19042003)	489042.19
3626036.42	106.56648	(21020920)		
489062.19	3626036.42	104.40254	(20062624)	489082.19
3626036.42	102.44528	(20062624)		
489102.19	3626036.42	97.76680	(20082724)	489122.19
3626036.42	98.31106	(19050724)		
489142.19	3626036.42	98.03316	(19050724)	488782.19
3626056.42	146.71102	(19042003)		
488802.19	3626056.42	150.97590	(19042003)	488822.19

3626056.42	145.12954	(19042003)			
488842.19	3626056.42	136.20811	(20041924)		489042.19
3626056.42	107.66691	(20062624)			
489062.19	3626056.42	104.27300	(20062624)		489082.19
3626056.42	100.76882	(19050724)			
489102.19	3626056.42	101.76733	(19050724)		489122.19
3626056.42	99.97904	(19050724)			
489142.19	3626056.42	99.44554	(19042005)		489162.19
3626056.42	97.14358	(19042005)			
488782.19	3626076.42	156.59156	(19042003)		488802.19
3626076.42	150.13892	(19042003)			
488822.19	3626076.42	140.75292	(20041924)		488842.19
3626076.42	135.48501	(21091202)			
488862.19	3626076.42	133.32381	(21070304)		489062.19
3626076.42	105.12034	(19050724)			
489082.19	3626076.42	104.54721	(19050724)		489102.19
3626076.42	103.35163	(19042005)			
489122.19	3626076.42	101.86066	(19042005)		489142.19
3626076.42	98.07986	(19042005)			
489162.19	3626076.42	94.88433	(20041204)		488782.19
3626096.42	155.17541	(19042003)			
488802.19	3626096.42	145.40801	(20041924)		488822.19
3626096.42	140.76433	(19082501)			
488842.19	3626096.42	138.79817	(21070304)		488862.19
3626096.42	136.09382	(21070304)			
489062.19	3626096.42	107.13096	(19042005)		489082.19
3626096.42	106.56938	(19042005)			
489102.19	3626096.42	103.47086	(19042005)		489122.19
3626096.42	99.01366	(20041204)			
489142.19	3626096.42	96.17359	(20031420)		489162.19
3626096.42	94.90103	(20031420)			
488782.19	3626116.42	150.46488	(21092505)		488802.19
3626116.42	146.25494	(19082501)			
488822.19	3626116.42	144.25980	(21070304)		488842.19
3626116.42	139.99041	(21070304)			
488862.19	3626116.42	134.38892	(19030322)		489062.19
3626116.42	108.92146	(19042005)			
489082.19	3626116.42	104.18933	(19042005)		489102.19
3626116.42	100.68651	(20041204)			

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L000001 , L000002

```

, L0000003      , L0000004      , L0000005      ,
                  L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      ,

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*** 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)		
489122.19	3626116.42	99.10853	(20031420)	489142.19
3626116.42	96.36242	(20031420)		
489162.19	3626116.42	91.94426	(20031420)	489182.19
3626116.42	89.81429	(20090222)		
488782.19	3626136.42	151.88054	(19082501)	488802.19
3626136.42	149.75406	(21070304)		
488822.19	3626136.42	143.73350	(21070304)	488842.19
3626136.42	139.72397	(19030322)		
488862.19	3626136.42	136.76611	(19030322)	489082.19
3626136.42	103.43903	(20031420)		
489102.19	3626136.42	101.06674	(20031420)	489122.19
3626136.42	96.81377	(20031420)		
489142.19	3626136.42	93.55712	(20090222)	489162.19
3626136.42	92.77888	(20090222)		
489182.19	3626136.42	90.55954	(20090222)	488782.19
3626156.42	155.25161	(21070304)		
488802.19	3626156.42	148.22844	(20101020)	488822.19
3626156.42	144.80921	(19030322)		
488842.19	3626156.42	139.83736	(19030322)	488862.19
3626156.42	135.86726	(21020920)		
488882.19	3626156.42	133.11526	(21020920)	489102.19
3626156.42	97.97256	(20102421)		
489122.19	3626156.42	96.86545	(20090222)	489142.19
3626156.42	94.65461	(20090222)		
489162.19	3626156.42	91.53812	(20072623)	489182.19
3626156.42	90.90602	(19050723)		
488782.19	3626176.42	153.50016	(20101020)	488802.19
3626176.42	149.63683	(19030322)		
488822.19	3626176.42	143.11883	(20012621)	488842.19
3626176.42	141.20523	(21020920)		
488862.19	3626176.42	136.46982	(20062624)	488882.19
3626176.42	133.23744	(20062624)		
489122.19	3626176.42	95.40753	(20090222)	489142.19

3626176.42	94.46738	(19050723)			
489162.19	3626176.42	94.29630	(19050723)		489182.19
3626176.42	92.82321	(19050723)			
488782.19	3626196.42	154.10625	(19030322)		488802.19
3626196.42	147.98791	(21020920)			
488822.19	3626196.42	146.04728	(21020920)		488842.19
3626196.42	141.37708	(20062624)			
488862.19	3626196.42	135.97850	(20062624)		488882.19
3626196.42	130.75452	(19050724)			
488902.19	3626196.42	130.48815	(19042005)		489142.19
3626196.42	96.34363	(19050723)			
489162.19	3626196.42	94.45280	(19042004)		489182.19
3626196.42	92.03256	(19042004)			
489202.19	3626196.42	88.64893	(19042004)		488782.19
3626216.42	154.59692	(21020920)			
488802.19	3626216.42	150.36005	(21020920)		488822.19
3626216.42	145.58419	(20062624)			
488842.19	3626216.42	138.77040	(20102322)		488862.19
3626216.42	135.57231	(19042005)			
488882.19	3626216.42	135.86010	(19042005)		488902.19
3626216.42	132.67548	(19042005)			
489142.19	3626216.42	95.88597	(19042004)		489162.19
3626216.42	92.14716	(19042004)			
489182.19	3626216.42	89.55557	(21071622)		489202.19
3626216.42	87.72056	(21100604)			
489222.19	3626216.42	86.66950	(21100604)		489242.19
3626216.42	84.85421	(21100604)			
489262.19	3626216.42	82.41907	(21072324)		488782.19
3626236.42	154.79617	(21073002)			
488802.19	3626236.42	149.11687	(21073002)		488822.19
3626236.42	142.49120	(20102322)			
488842.19	3626236.42	142.16723	(19042005)		488862.19
3626236.42	140.15892	(19042005)			
488882.19	3626236.42	134.70738	(19042005)		488902.19
3626236.42	128.94313	(20120918)			
489142.19	3626236.42	93.17748	(21071622)		489162.19
3626236.42	91.66576	(21100604)			
489182.19	3626236.42	90.19357	(21100604)		489202.19
3626236.42	87.93221	(21100604)			
489222.19	3626236.42	85.74529	(21072324)		489242.19
3626236.42	84.16539	(21072324)			
489262.19	3626236.42	83.21618	(19092701)		488782.19
3626256.42	152.49014	(20102322)			
488802.19	3626256.42	148.41900	(19042005)		488822.19
3626256.42	147.67428	(19042005)			
488842.19	3626256.42	143.30506	(19042005)		488862.19
3626256.42	136.68741	(20120918)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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 ,

*** 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)		
488882.19	3626256.42	131.98217	(20031420)	488902.19
3626256.42	127.38910	(20031420)		
488922.19	3626256.42	122.09244	(20090222)	489142.19
3626256.42	93.84192	(21100604)		
489162.19	3626256.42	90.95961	(21100604)	489222.19
3626256.42	86.78009	(19092701)		
489242.19	3626256.42	85.22809	(19092701)	489262.19
3626256.42	83.17599	(19060822)		
488882.19	3626276.42	129.10546	(19083123)	488902.19
3626276.42	126.32602	(20090222)		
488922.19	3626276.42	122.21228	(20090222)	489142.19
3626276.42	92.48364	(19092701)		
489162.19	3626276.42	91.41758	(19092701)	489242.19
3626276.42	85.29775	(19060822)		
489262.19	3626276.42	83.30075	(19060822)	488882.19
3626296.42	129.02453	(20090222)		
488902.19	3626296.42	124.49300	(21083022)	489262.19
3626296.42	82.76408	(20072422)		
489282.19	3626296.42	81.40183	(19050722)	488902.19
3626316.42	127.88585	(19042004)		
489282.19	3626316.42	80.60393	(19050722)	489302.19
3626316.42	78.89580	(20081822)		
488902.19	3626336.42	125.38694	(19042004)	488922.19
3626336.42	119.05779	(21100604)		
489302.19	3626336.42	79.42308	(21070101)	489322.19

3626336.42	78.03264	(21070101)			
488922.19	3626356.42	118.89460	(21100604)		488942.19
3626356.42	115.28294	(19092701)			
489322.19	3626356.42	78.08297	(19073123)		488942.19
3626376.42	115.75466	(19092701)			
488962.19	3626376.42	113.24069	(19060822)		489322.19
3626376.42	78.34754	(19072303)			
489342.19	3626376.42	76.79396	(19072303)		488962.19
3626396.42	112.25512	(19083024)			
489322.19	3626396.42	77.90404	(19043020)		489342.19
3626396.42	76.48873	(19043020)			
489342.19	3626416.42	75.66610	(21072101)		489342.19
3626436.42	75.07914	(21062324)			
488086.20	3626768.13	489.13486	(21040602)		488077.21
3626746.82	428.23063	(19120716)			
488075.79	3626778.08	492.32549	(21011618)		488002.86
3626694.73	298.05136	(19042203)			
487535.35	3626865.62	160.44432	(21020701)		487693.75
3626992.77	233.31474	(19120404)			
487795.04	3626883.94	259.42682	(19121406)		487871.55
3626830.06	305.42316	(19121406)			
487958.83	3626811.74	413.35897	(19120404)		488041.80
3626794.50	638.87983	(19120405)			
488094.61	3626765.41	1124.79465	(19120716)		488046.12
3626714.76	491.67625	(19121406)			
488007.32	3626665.19	349.53736	(21112423)		487941.59
3626599.46	260.50270	(19040823)			
487911.42	3626574.68	253.79861	(19040823)		487815.52
3626540.19	190.23568	(19040823)			
487709.91	3626504.63	132.07890	(19021102)		487555.82
3626439.98	115.41809	(19021102)			
487490.09	3626487.39	120.54378	(19040823)		487428.67
3626556.36	113.11054	(19022001)			
487358.63	3626713.68	125.62266	(20012319)		487522.42
3626827.90	149.71191	(21120107)			
488235.45	3625424.52	99.15975	(19032623)		488562.08
3625540.85	107.61370	(19101221)			
488747.03	3625794.41	135.59801	(21081502)		488857.40
3625879.42	123.64564	(21073103)			
489054.28	3625949.52	101.46822	(20101020)		489134.82
3625964.44	94.69264	(21020920)			
489178.07	3626085.25	93.28538	(20031420)		489203.43
3626198.60	87.90580	(19042004)			
489260.10	3626203.08	83.59621	(21100604)		489276.51
3626217.99	81.63549	(21072324)			
489267.56	3626265.72	83.36471	(19060822)		489336.17
3626346.26	76.98473	(19073123)			
489361.53	3626432.77	73.82058	(21062324)		489331.70
3626449.18	76.19919	(20012420)			
489309.32	3626361.18	78.77322	(19073123)		489258.61

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3626298.53      82.90632 (20072422)
                489190.00  3626228.43      89.39616 (21100604)      489149.73
3626317.92      91.98224 (19060822)
                489130.34  3626250.81      94.67582 (21100604)      489137.80
3626216.50      96.56339 (19042004)
*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

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*** 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      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
489054.28	3626106.13	109.16345 (19042005)	489036.38
3626036.03	107.11351 (21020920)		
488921.53	3625997.25	120.10840 (21091202)	488846.96
3625983.83	130.41372 (19101420)		
488872.31	3626110.61	133.19006 (19030322)	488902.14
3626194.13	129.67745 (19042005)		
488931.97	3626270.20	120.89720 (20090222)	488908.77
3626298.76	123.97389 (19042004)		
488936.81	3626348.34	117.02343 (21100604)	488971.36
3626378.01	111.82962 (19060822)		
488968.11	3626409.72	109.44312 (21081521)	488903.08
3626355.25	122.58181 (21062024)		
488864.87	3626256.49	135.99854 (20120918)	488763.27
3626259.34	159.37822 (21073002)		
488787.87	3625962.95	140.97072 (20071102)	488735.67
3625906.27	146.24081 (20112002)		
488620.82	3625988.31	184.73672 (21081502)	488588.00

3625956.98	173.64735	(21042721)			
	488671.53	3625861.52	144.66015	(19100221)	488629.77
3625813.79	155.50619	(19082901)			
	488588.00	3625746.67	135.89478	(19090303)	488571.59
3625648.23	124.23847	(20060721)			
	488516.41	3625666.13	126.14929	(19032522)	488522.37
3625581.11	126.28279	(19052822)			
	488431.39	3625576.63	111.07806	(20060224)	488447.79
3625615.41	119.92041	(20021420)			
	488388.13	3625616.90	122.96197	(20070402)	488398.57
3625706.40	129.42842	(21122219)			
	488406.03	3625745.18	139.61470	(20021420)	488392.60
3625776.50	143.96525	(20060224)			
	488350.84	3625722.81	150.19195	(19080704)	488279.24
3625769.05	147.69058	(19110723)			
	488282.23	3625807.83	156.28686	(19110723)	488246.43
3625851.08	166.69667	(19032623)			
	488230.02	3625946.54	200.35778	(19032623)	488188.26
3625924.17	177.74261	(20113019)			
	488213.62	3625757.11	139.82692	(20091504)	488170.36
3625779.49	145.77895	(20113019)			
	488170.36	3625733.25	137.76244	(20113019)	488077.88
3625697.45	123.87694	(20090823)			
	487973.47	3625822.74	127.21276	(19041502)	487955.57
3625809.32	124.59184	(19111401)			
	488058.49	3625678.06	119.62733	(20091324)	488057.00
3625618.40	112.36097	(20090823)			
	488107.71	3625596.02	113.03318	(21102122)	488185.27
3625576.63	111.88736	(20113019)			
	488228.53	3625528.90	108.56401	(19032623)	488233.01
3625482.66	105.17506	(19032623)			

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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		

```

-----
-----
PASS      1ST HIGHEST VALUE IS      71.38897 AT ( 488094.61, 3626765.41, 19.58,
123.49,   0.00) DC
          2ND HIGHEST VALUE IS      62.54838 AT ( 488086.96, 3626764.52, 19.58,
123.49,   0.00) DC
          3RD HIGHEST VALUE IS      50.79627 AT ( 488066.96, 3626744.52, 19.63,
123.49,   0.00) DC
          4TH HIGHEST VALUE IS      45.95855 AT ( 488066.96, 3626764.52, 19.57,
123.49,   0.00) DC
          5TH HIGHEST VALUE IS      42.06057 AT ( 488046.12, 3626714.76, 19.26,
123.54,   0.00) DC
          6TH HIGHEST VALUE IS      41.31107 AT ( 488046.96, 3626724.52, 19.43,
123.54,   0.00) DC
          7TH HIGHEST VALUE IS      38.64284 AT ( 488046.96, 3626744.52, 19.58,
123.49,   0.00) DC
          8TH HIGHEST VALUE IS      35.81141 AT ( 488046.96, 3626764.52, 19.45,
123.48,   0.00) DC
          9TH HIGHEST VALUE IS      33.99934 AT ( 488026.96, 3626704.52, 19.33,
123.63,   0.00) DC
          10TH HIGHEST VALUE IS     32.55787 AT ( 488026.96, 3626724.52, 19.26,
123.49,   0.00) DC

TRUCK     1ST HIGHEST VALUE IS      65.37882 AT ( 488094.61, 3626765.41, 19.58,
123.49,   0.00) DC
          2ND HIGHEST VALUE IS      57.91255 AT ( 488086.96, 3626764.52, 19.58,
123.49,   0.00) DC
          3RD HIGHEST VALUE IS      47.89815 AT ( 488066.96, 3626744.52, 19.63,
123.49,   0.00) DC
          4TH HIGHEST VALUE IS      43.33661 AT ( 488066.96, 3626764.52, 19.57,
123.49,   0.00) DC
          5TH HIGHEST VALUE IS      39.88850 AT ( 488046.12, 3626714.76, 19.26,
123.54,   0.00) DC
          6TH HIGHEST VALUE IS      39.29393 AT ( 488046.96, 3626724.52, 19.43,
123.54,   0.00) DC
          7TH HIGHEST VALUE IS      36.84563 AT ( 488046.96, 3626744.52, 19.58,
123.49,   0.00) DC
          8TH HIGHEST VALUE IS      34.11460 AT ( 488046.96, 3626764.52, 19.45,
123.48,   0.00) DC
          9TH HIGHEST VALUE IS      32.47053 AT ( 488026.96, 3626704.52, 19.33,
123.63,   0.00) DC
          10TH HIGHEST VALUE IS     31.22570 AT ( 488026.96, 3626724.52, 19.26,
123.49,   0.00) DC

ALL       1ST HIGHEST VALUE IS     136.76779 AT ( 488094.61, 3626765.41, 19.58,
123.49,   0.00) DC
          2ND HIGHEST VALUE IS     120.46093 AT ( 488086.96, 3626764.52, 19.58,
123.49,   0.00) DC
          3RD HIGHEST VALUE IS      98.69442 AT ( 488066.96, 3626744.52, 19.63,

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123.49, 0.00) DC
 4TH HIGHEST VALUE IS 89.29516 AT (488066.96, 3626764.52, 19.57,
 123.49, 0.00) DC
 5TH HIGHEST VALUE IS 81.94906 AT (488046.12, 3626714.76, 19.26,
 123.54, 0.00) DC
 6TH HIGHEST VALUE IS 80.60500 AT (488046.96, 3626724.52, 19.43,
 123.54, 0.00) DC
 7TH HIGHEST VALUE IS 75.48848 AT (488046.96, 3626744.52, 19.58,
 123.49, 0.00) DC
 8TH HIGHEST VALUE IS 69.92600 AT (488046.96, 3626764.52, 19.45,
 123.48, 0.00) DC
 9TH HIGHEST VALUE IS 66.46987 AT (488026.96, 3626704.52, 19.33,
 123.63, 0.00) DC
 10TH HIGHEST VALUE IS 63.78357 AT (488026.96, 3626724.52, 19.26,
 123.49, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

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 Parkway Bridge Project EIR\ *** 12/21/23
 *** AERMET - VERSION 22112 *** ***
 *** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	DATE	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	(YYMMDDHH)	
AVERAGE CONC OF NETWORK TYPE GRID-ID		
PASS HIGH 1ST HIGH VALUE IS 597.84336 ON 19120716: AT (488094.61, 3626765.41, 19.58, 123.49, 0.00) DC		
TRUCK HIGH 1ST HIGH VALUE IS 526.95129 ON 19120716: AT (488094.61, 3626765.41, 19.58, 123.49, 0.00) DC		
ALL HIGH 1ST HIGH VALUE IS 1124.79465 ON 19120716: AT (488094.61,		

3626765.41, 19.58, 123.49, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 1087 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 318 Calm Hours Identified

A Total of 769 Missing Hours Identified (2.92 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W403 153 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

*** AERMOD Finishes Successfully ***

*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\Desktop\HARP2\HARP\Fenton
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PAGE 1

*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Allows User-Specified 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 24 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.
- * CCVR_Sub - Meteorological data includes CCVR 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: 24 Source(s); 3 Source Group(s); and 1248
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 24 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)

ALBEDO	REF	WS	WD	HT	REF	TA	HT						
19	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	1.34	41.		10.0	282.9	10.0							
19	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	1.70	14.		10.0	281.6	10.0							
19	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	1.21
1.00	1.21	355.		10.0	281.3	10.0							
19	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	1.34	23.		10.0	281.5	10.0							
19	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.28	9.		10.0	281.0	10.0							
19	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.24	27.		10.0	279.5	10.0							
19	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	2.82	31.		10.0	279.4	10.0							
19	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	1.21
0.50	2.32	356.		10.0	279.8	10.0							
19	01	01	1	09	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.30	2.24	40.		10.0	283.0	10.0							
19	01	01	1	10	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
0.23	3.49	65.		10.0	285.2	10.0							
19	01	01	1	11	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.21	4.51	59.		10.0	286.8	10.0							
19	01	01	1	12	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.24	52.		10.0	287.3	10.0							
19	01	01	1	13	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.20	7.60	51.		10.0	287.1	10.0							
19	01	01	1	14	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.21	6.79	54.		10.0	287.1	10.0							
19	01	01	1	15	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.24	7.06	52.		10.0	287.1	10.0							
19	01	01	1	16	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.33	5.72	55.		10.0	286.4	10.0							
19	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
0.61	2.64	53.		10.0	285.2	10.0							
19	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	5.50	50.		10.0	283.4	10.0							
19	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	4.38	59.		10.0	281.6	10.0							
19	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.29	62.		10.0	280.9	10.0							
19	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	4.34	60.		10.0	281.0	10.0							
19	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21
1.00	2.64	72.		10.0	280.1	10.0							
19	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	1.21
1.00	3.49	58.		10.0	279.4	10.0							
19	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	1.21

1.00 2.73 77. 10.0 279.3 10.0

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
19 01 01 01 10.0 1 41. 1.34 283.0 18.0 -99.00 0.40

F indicates top of profile (=1) or below (=0)

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*** AERMET - VERSION 22112 *** ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** 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		
PASS	1ST HIGHEST VALUE IS	71.38897 AT (	488094.61, 3626765.41, 19.58,
123.49,	0.00) DC		
	2ND HIGHEST VALUE IS	62.54838 AT (	488086.96, 3626764.52, 19.58,
123.49,	0.00) DC		
	3RD HIGHEST VALUE IS	50.79627 AT (	488066.96, 3626744.52, 19.63,
123.49,	0.00) DC		
	4TH HIGHEST VALUE IS	45.95855 AT (	488066.96, 3626764.52, 19.57,
123.49,	0.00) DC		
	5TH HIGHEST VALUE IS	42.06057 AT (	488046.12, 3626714.76, 19.26,
123.54,	0.00) DC		
	6TH HIGHEST VALUE IS	41.31107 AT (	488046.96, 3626724.52, 19.43,
123.54,	0.00) DC		
	7TH HIGHEST VALUE IS	38.64284 AT (	488046.96, 3626744.52, 19.58,
123.49,	0.00) DC		
	8TH HIGHEST VALUE IS	35.81141 AT (	488046.96, 3626764.52, 19.45,
123.48,	0.00) DC		
	9TH HIGHEST VALUE IS	33.99934 AT (	488026.96, 3626704.52, 19.33,
123.63,	0.00) DC		
	10TH HIGHEST VALUE IS	32.55787 AT (	488026.96, 3626724.52, 19.26,
123.49,	0.00) DC		

TRUCK	1ST HIGHEST VALUE IS	65.37882	AT (	488094.61,	3626765.41,	19.58,
	123.49, 0.00) DC					
	2ND HIGHEST VALUE IS	57.91255	AT (	488086.96,	3626764.52,	19.58,
	123.49, 0.00) DC					
	3RD HIGHEST VALUE IS	47.89815	AT (	488066.96,	3626744.52,	19.63,
	123.49, 0.00) DC					
	4TH HIGHEST VALUE IS	43.33661	AT (	488066.96,	3626764.52,	19.57,
	123.49, 0.00) DC					
	5TH HIGHEST VALUE IS	39.88850	AT (	488046.12,	3626714.76,	19.26,
	123.54, 0.00) DC					
	6TH HIGHEST VALUE IS	39.29393	AT (	488046.96,	3626724.52,	19.43,
	123.54, 0.00) DC					
	7TH HIGHEST VALUE IS	36.84563	AT (	488046.96,	3626744.52,	19.58,
	123.49, 0.00) DC					
	8TH HIGHEST VALUE IS	34.11460	AT (	488046.96,	3626764.52,	19.45,
	123.48, 0.00) DC					
	9TH HIGHEST VALUE IS	32.47053	AT (	488026.96,	3626704.52,	19.33,
	123.63, 0.00) DC					
	10TH HIGHEST VALUE IS	31.22570	AT (	488026.96,	3626724.52,	19.26,
	123.49, 0.00) DC					
ALL	1ST HIGHEST VALUE IS	136.76779	AT (	488094.61,	3626765.41,	19.58,
	123.49, 0.00) DC					
	2ND HIGHEST VALUE IS	120.46093	AT (	488086.96,	3626764.52,	19.58,
	123.49, 0.00) DC					
	3RD HIGHEST VALUE IS	98.69442	AT (	488066.96,	3626744.52,	19.63,
	123.49, 0.00) DC					
	4TH HIGHEST VALUE IS	89.29516	AT (	488066.96,	3626764.52,	19.57,
	123.49, 0.00) DC					
	5TH HIGHEST VALUE IS	81.94906	AT (	488046.12,	3626714.76,	19.26,
	123.54, 0.00) DC					
	6TH HIGHEST VALUE IS	80.60500	AT (	488046.96,	3626724.52,	19.43,
	123.54, 0.00) DC					
	7TH HIGHEST VALUE IS	75.48848	AT (	488046.96,	3626744.52,	19.58,
	123.49, 0.00) DC					
	8TH HIGHEST VALUE IS	69.92600	AT (	488046.96,	3626764.52,	19.45,
	123.48, 0.00) DC					
	9TH HIGHEST VALUE IS	66.46987	AT (	488026.96,	3626704.52,	19.33,
	123.63, 0.00) DC					
	10TH HIGHEST VALUE IS	63.78357	AT (	488026.96,	3626724.52,	19.26,
	123.49, 0.00) DC					

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

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 Parkway Bridge Project EIR\ *** 12/21/23

*** AERMET - VERSION 22112 ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** THE SUMMARY OF HIGHEST 1-HR
RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M³
**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK AVERAGE CONC OF TYPE GRID-ID	DATE (YYMMDDHH)	RECEPTOR
PASS HIGH 1ST HIGH VALUE IS 3626765.41, 19.58, 123.49,	597.84336 0.00) DC	ON 19120716: AT (	488094.61,
TRUCK HIGH 1ST HIGH VALUE IS 3626765.41, 19.58, 123.49,	526.95129 0.00) DC	ON 19120716: AT (	488094.61,
ALL HIGH 1ST HIGH VALUE IS 3626765.41, 19.58, 123.49,	1124.79465 0.00) DC	ON 19120716: AT (	488094.61,

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 23132 ***
Parkway Bridge Project EIR\ 12/21/23

*** AERMET - VERSION 22112 ***
*** 14:45:58

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*** MODELOPTs: CONC ELEV FLGPOL URBAN SigA Data

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 1087 Informational Message(s)

A Total of 26304 Hours Were Processed
A Total of 318 Calm Hours Identified
A Total of 769 Missing Hours Identified (2.92 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W403 153 PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

HARP2 - Roadway HRA

HARP2 - HRACalc (dated 22118) 1/2/2024 11:28:59 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 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: OFF

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

TIER 2 SETTINGS
Tier2 not used.

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON PARKWAY OPS HRA\hra\Unmit_Ops_CancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON PARKWAY OPS HRA\hra\Unmit_Ops_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON PARKWAY OPS HRA\hra\Unmit_Ops_NCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON PARKWAY OPS HRA\hra\Unmit_Ops_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON PARKWAY OPS HRA\hra\Unmit_Ops_NCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\enuno\OneDrive - Dudek\Desktop\Fenton Parkway\FENTON PARKWAY OPS HRA\hra\Unmit_Ops_NCAcuteRiskSumByRec.csv
HRA ran successfully

