

Appendix B:
Air Quality, Energy, Greenhouse Gas Emissions, and Health Risk Assessment
Impact Analysis



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AIR QUALITY, ENERGY, AND GREENHOUSE GAS EMISSIONS AND HEALTH RISK ASSESSMENT IMPACT ANALYSIS

TENTATIVE TRACT MAP NO. 38625 RESIDENTIAL PROJECT

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ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
Air Basin	South Coast Air Basin
AQMP	Air Quality Management Plan
BACT	Best Available Control Technology
BSFC	Brake Specific Fuel Consumption
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFCs	chlorofluorocarbons
Cf ₄	tetrafluoromethane
C ₂ F ₆	hexafluoroethane
CH ₄	Methane
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
City	City of Menifee
DPM	Diesel particulate matter
EPA	Environmental Protection Agency
°F	Fahrenheit
FTIP	Federal Transportation Improvement Program
GHG	Greenhouse gas
GWP	Global warming potential
HAP	Hazardous Air Pollutants
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
kWhr	kilowatt-hour
LCFS	Low Carbon Fuel Standard

LST	Localized Significant Thresholds
MATES	Multiple Air Toxics Exposure Study
MMTCO ₂ e	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
MWh	Megawatt-hour
NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen oxides
NO ₂	Nitrogen dioxide
OPR	Office of Planning and Research
Pfc	Perfluorocarbons
PM	Particle matter
PM ₁₀	Particles that are less than 10 micrometers in diameter
PM _{2.5}	Particles that are less than 2.5 micrometers in diameter
PPM	Parts per million
PPB	Parts per billion
PPT	Parts per trillion
RTIP	Regional Transportation Improvement Plan
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCAG	Southern California Association of Governments
SF ₆	Sulfur Hexafluoride
SIP	State Implementation Plan
SO _x	Sulfur oxides
TAC	Toxic air contaminants
TTM	Tentative Tract Map
UNFCCC	United Nations' Framework Convention on Climate Change
VOC	Volatile organic compounds

1.0 INTRODUCTION

1.1 Purpose of Analysis and Study Objectives

This Air Quality, Energy, Greenhouse Gas (GHG) Emissions, and Health Risk Assessment (HRA) Impact Analysis has been completed to determine the air quality, energy, GHG emissions and HRA impacts associated with the proposed Tentative Tract Map (TTM) No. 38625 Residential project (proposed project). The following is provided in this report:

- A description of the proposed project;
- A description of the atmospheric setting;
- A description of the criteria pollutants and GHGs;
- A description of the air quality regulatory framework;
- A description of the energy conservation regulatory framework;
- A description of the GHG emissions regulatory framework;
- A description of the air quality, energy, and GHG emissions thresholds including the California Environmental Quality Act (CEQA) significance thresholds;
- An analysis of the conformity of the proposed project with the South Coast Air Quality Management District (SCAQMD) Air Quality Management Plan (AQMP);
- An analysis of the short-term construction related and long-term operational air quality, energy, and GHG emissions impacts;
- An analysis of the cancer and non-cancer risks (acute and chronic) from construction-related toxic air contaminant (TAC) emissions; and
- An analysis of the conformity of the proposed project with all applicable energy and GHG emissions reduction plans and policies.

1.2 Site Location and Study Area

The project site is located on the eastern edge of the City of Menifee (City). The approximately 55.4 acre project site is currently vacant and is bounded by Simpson Road and single-family homes to the north, vacant land to the east, Salt Creek Channel and vacant land to the south, and single-family homes to the west. The project local study area is shown in Figure 1.

Sensitive Receptors in Project Vicinity

The nearest sensitive receptors to the project site are residents at the single-family homes on the west side of the project site, located as near as 12 feet west of the project site. There are also single-family homes on the north side of Simpson Road that are located as near as 120 feet north of the project site. The nearest K-12 school is Ethan Chase Middle School that is located as near as 1,460 feet north of the project site.

1.3 Proposed Project Description

The proposed project would disturb up to 51.2 acres of the 55.4 acre project site and would consist of the development of 330 single-family detached homes that would include approximately 8.6 acres of open

space area of which the southern portion of the project site would be designated as a City park and would include grass playfields, tot lots, sitting areas with possible shade structures, walkways and a parking lot. The proposed project would include the paving of approximately 12.4 acres of onsite roads and extension of Briggs Road along the eastern edge of the project site. The proposed site plan is shown in Figure 2.

1.4 Executive Summary

Standard Air Quality, Energy, and GHG Regulatory Conditions

The proposed project will be required to comply with the following regulatory conditions from the SCAQMD and State of California (State).

South Coast Air Quality Management District Rules

The following lists the SCAQMD rules that are applicable, but not limited to the proposed project.

- Rule 402 Nuisance – Controls the emissions of odors and other air contaminants;
- Rule 403 Fugitive Dust – Controls the emissions of fugitive dust;
- Rules 1108 and 1108.1 Cutback and Emulsified Asphalt – Controls the VOC content in asphalt;
- Rule 1113 Architectural Coatings – Controls the VOC content in paints and solvents; and
- Rule 1143 Paint Thinners – Controls the VOC content in paint thinners.

State of California Rules

The following lists the State of California Code of Regulations (CCR) air quality emission rules that are applicable, but not limited to the proposed project.

- CCR Title 13, Article 4.8, Chapter 9, Section 2449 – In use Off-Road Diesel Vehicles;
- CCR Title 13, Section 2025 – On-Road Diesel Truck Fleets;
- CCR Title 24 Part 6 – California Building Energy Standards; and
- CCR Title 24 Part 11 – California Green Building Standards.

Summary of Analysis Results

The following is a summary of the proposed project's impacts with regard to the State CEQA Guidelines air quality, energy, and GHG emissions checklist questions.

Conflict with or obstruct implementation of the applicable air quality plan?

Potentially significant impact. Mitigation Measures AIR-1 and AIR-2 have been provided to reduce this impact to less than significant levels.

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?

Potentially significant impact. Mitigation Measures AIR-1 and AIR-2 have been provided to reduce this impact to less than significant levels.

Expose sensitive receptors to substantial pollutant concentrations?

Potentially significant impact. Mitigation Measures AIR-1 and AIR-2 have been provided to reduce this impact to less than significant levels.

Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less than significant impact.

Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation;

Less than significant impact.

Conflict with or obstruct a state or local plan for renewable energy;

Less than significant impact.

Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than significant impact.

Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs?

Less than significant impact.

1.5 Project Design Features Incorporated into the Proposed Project

This analysis was based on implementation of the following project design feature that the project applicant has committed to implementing.

Project Design Feature 1:

The proposed project shall be designed as an All-Electric Development, which requires all appliances that are installed into the proposed homes to be electric powered and no natural gas lines shall be run to the proposed homes.

1.6 Mitigation Measures for the Proposed Project

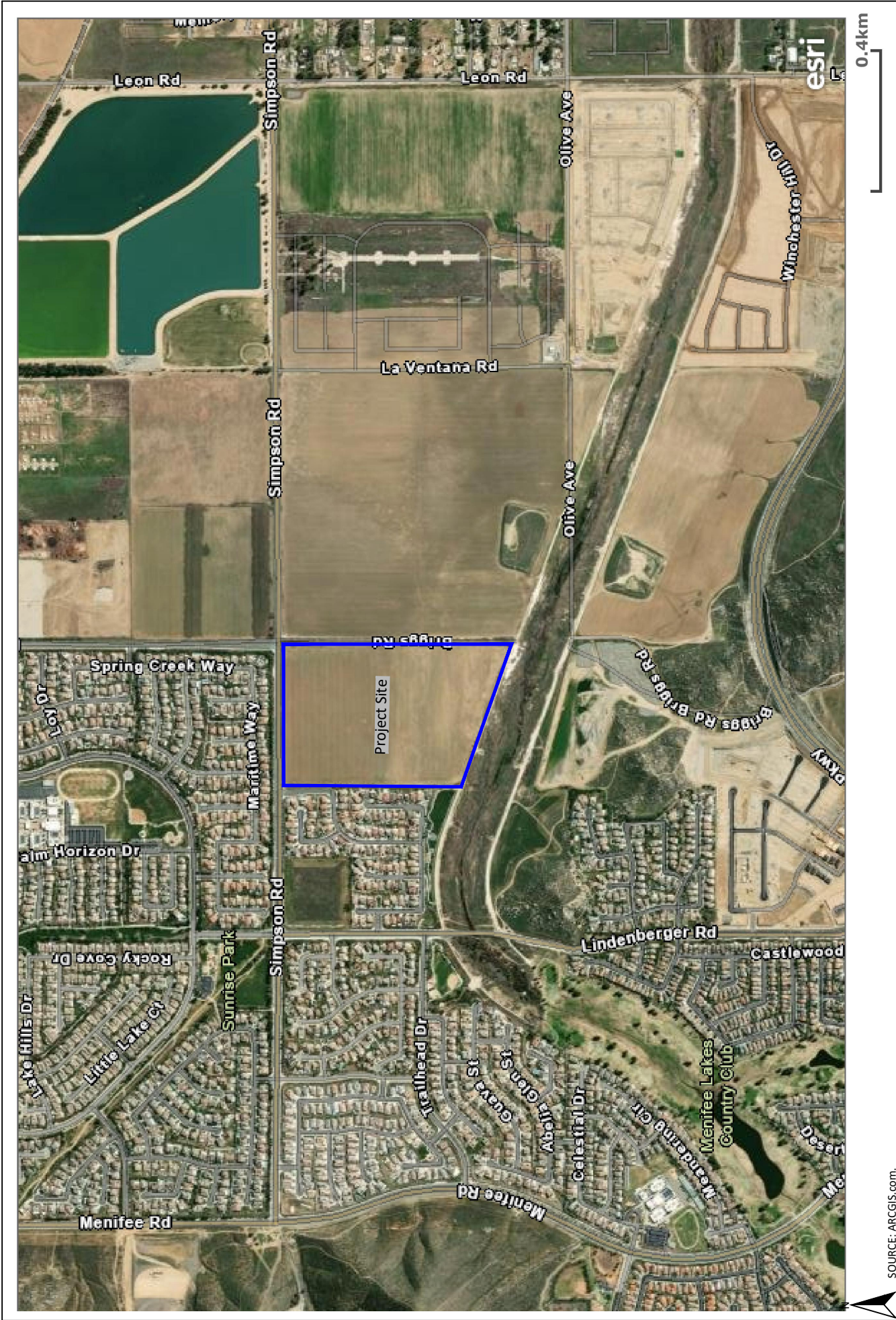
This analysis found that implementation of the State and SCAQMD air quality, energy, TAC and GHG emissions reductions regulations, implementation of Project Design Feature 1, and through implementation of the following mitigation measures, all criteria pollutants, toxic air contaminants, odors, energy, and GHG emissions from the proposed project would be reduced to less than significant levels.

Mitigation Measure AIR-1

The project applicant shall require that construction contractor to water all unpaved construction roads a minimum of two times per day and to limit the speed on all unpaved construction roads to 15 miles per hour or less for the duration that unpaved construction roads exist on the project site.

Mitigation Measure AIR-2

The project applicant shall require that construction contractor only utilize off-road equipment on the project site that has been registered with CARB and all off-road equipment that is greater than 50 horsepower shall meet the US EPA Tier 4 Final emission standards.



SOURCE: ARCGIS.com.

Figure 1
Project Local Study Area



Figure 2
Proposed Site Plan

2.0 AIR POLLUTANTS

Air pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

2.1 Criteria Pollutants and Ozone Precursors

The criteria pollutants consist of: ozone, nitrogen oxides (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), lead, and particulate matter (PM). The ozone precursors consist of NO_x and VOC. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants “criteria” air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants and ozone precursors.

Nitrogen Oxides

NO_x is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NO_x are colorless and odorless, concentrations of nitrogen dioxide (NO₂) can often be seen as a reddish-brown layer over many urban areas. NO_x form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NO_x are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NO_x reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO₂, which cause respiratory problems. NO_x and the pollutants formed from NO_x can be transported over long distances, following the patterns of prevailing winds. Therefore, controlling NO_x is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

Ozone

Ozone is not usually emitted directly into the air, instead it is created by a chemical reaction between NO_x and VOCs in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NO_x and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NO_x and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NO_x and VOC emissions.

Carbon Monoxide

CO is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes approximately 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas

stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

Sulfur Oxides

SOx gases are formed when fuel containing sulfur, such as coal and oil is burned, as well as from the refining of gasoline. SOx dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

Lead

Lead is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants and children to low levels of lead can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

Particulate Matter

PM is the term for a mixture of solid particles and liquid droplets found in the air. PM is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM10) that are also known as *Respirable Particulate Matter* are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM2.5) that are also known as *Fine Particulate Matter* have been designated as a subset of PM10 due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

Volatile Organic Compounds

Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of ozone 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.

VOC is not classified as a criteria pollutant, since VOCs by themselves are not a known source of adverse health effects. The primary health effects of VOCs result from the formation of ozone 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 health standards for VOCs as a group.

2.2 Other Pollutants of Concern

Toxic Air Contaminants

In addition to the above-listed criteria pollutants, TACs are another group of pollutants of concern. TACs is a term that is defined under the California Clean Air Act and consists of the same substances that are defined as Hazardous Air Pollutants (HAPs) in the Federal Clean Air Act. There are over 700 hundred different types of TACs with varying degrees of toxicity. Sources of TACs include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least 40 different toxic air contaminants. The most important of these TACs, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to TACs can result from emissions from normal operations as well as from accidental releases. Health effects of TACs include cancer, birth defects, neurological damage, and death.

TACs are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of TACs with varying degrees of toxicity. Sources of TACs include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to *The California Almanac of Emissions and Air Quality 2013 Edition*, the majority of the estimated health risk from TACs can be attributed to relatively few compounds, the most important of which is DPM. DPM is a subset of PM_{2.5} because the size of diesel particles are typically 2.5 microns and smaller. The identification of DPM as a TAC in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in DPM by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot." Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of DPM as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to DPM is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

Asbestos

Asbestos is listed as a TAC by CARB and as a HAP by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release

asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. The nearest likely locations of naturally occurring asbestos, as identified in the *General Location Guide for Ultramafic Rocks in California*, prepared by the California Division of Mines and Geology, is located in Santa Barbara County. The nearest historic asbestos mine to the project site, as identified in the *Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California*, prepared by U.S. Geological Survey, is located at Asbestos Mountain, which is approximately 55 miles east of the project site in the San Jacinto Mountains. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos.

In addition to naturally occurring asbestos, asbestos was used extensively in building construction from the early 1940s through the 1970s as highly-effective and inexpensive fire-retardant material and thermal and acoustic insulator. Asbestos is most commonly found as thermal insulation on pipes, but also may be found in certain types of floor and ceiling tiles. There are two types of asbestos: "friable" and "non-friable." Friable asbestos generally contains more than 1 percent asbestos by weight or area, and can be crumbled, pulverized, or reduced to powder by the pressure of an ordinary human hand, which releases fibers. Non friable asbestos generally contains more than 1 percent asbestos but cannot be pulverized under hand pressure and generally does not release asbestos fibers. The analysis of asbestos from demolition of the existing structures is provided below in Section 10.4.

3.0 GREENHOUSE GASES

3.1 Greenhouse Gases

Constituent gases of the Earth's atmosphere, called atmospheric GHGs, play a critical role in the Earth's radiation amount by trapping infrared radiation from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO₂), methane (CH₄), ozone, water vapor, nitrous oxide (N₂O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Emissions of CO₂ and N₂O are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO₂, where CO₂ is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop." The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

Carbon Dioxide

The natural production and absorption of CO₂ is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid 1700s, each of these activities has increased in scale and distribution. CO₂ was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC) indicates that concentrations were 379 ppm in 2005, an increase of more than 30 percent. Left unchecked, the IPCC projects that concentration of carbon dioxide in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources. This

could result in an average global temperature rise of at least two degrees Celsius or 3.6 degrees Fahrenheit.

Methane

CH₄ is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO₂. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO₂, N₂O, and CFCs). CH₄ has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropogenic sources include fossil-fuel combustion and biomass burning.

Nitrous Oxide

Concentrations of N₂O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). N₂O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. N₂O is also commonly used as an aerosol spray propellant (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and race cars).

Chlorofluorocarbons

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. They were used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

Hydrofluorocarbons

Hydrofluorocarbons (HFCs) are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF₃), HFC-134a (CF₃CH₂F), and HFC-152a (CH₃CHF₂). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

Perfluorocarbons

Perfluorocarbons (PFCs) have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF₄) and hexafluoroethane (C₂F₆).

Concentrations of CF₄ in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

Sulfur Hexafluoride

Sulfur Hexafluoride (SF₆) is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF₆ has the highest global warming potential of any gas evaluated; 23,900 times that of CO₂. Concentrations in the 1990s were about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

Aerosols

Aerosols are particles 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. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

3.2 Global Warming Potential

GHGs have varying global warming potential (GWP). The GWP is the potential of a gas or aerosol to trap heat in the atmosphere; it is the cumulative radiative forcing effects of a gas over a specified time horizon resulting from the emission of a unit mass of gas relative to the reference gas, CO₂. The GHGs listed by the IPCC and the CEQA Guidelines are discussed in this section in order of abundance in the atmosphere. Water vapor, the most abundant GHG, is not included in this list because its natural concentrations and fluctuations far outweigh its anthropogenic (human-made) sources. To simplify reporting and analysis, GHGs are commonly defined in terms of their GWP. The IPCC defines the GWP of various GHG emissions on a normalized scale that recasts all GHG emissions in terms of CO₂ equivalent (CO₂e). As such, the GWP of CO₂ is equal to 1. The GWP values used in this analysis are based on the 2007 IPCC Fourth Assessment Report, which are used in CARB's 2014 Scoping Plan Update and the CalEEMod Model Version 2022.1 and are detailed in Table A. The IPCC has updated the Global Warming Potentials of some gases in their Fifth Assessment Report, however the new values have not yet been incorporated into the CalEEMod model that has been utilized in this analysis.

Table A – Global Warming Potentials, Atmospheric Lifetimes and Abundances of GHGs

Gas	Atmospheric Lifetime (years) ¹	Global Warming Potential (100 Year Horizon) ²	Atmospheric Abundance
Carbon Dioxide (CO ₂)	50-200	1	379 ppm
Methane (CH ₄)	9-15	25	1,774 ppb
Nitrous Oxide (N ₂ O)	114	298	319 ppb
HFC-23	270	14,800	18 ppt
HFC-134a	14	1,430	35 ppt
HFC-152a	1.4	124	3.9 ppt
PFC: Tetrafluoromethane (CF ₄)	50,000	7,390	74 ppt
PFC: Hexafluoroethane (C ₂ F ₆)	10,000	12,200	2.9 ppt
Sulfur Hexafluoride (SF ₆)	3,200	22,800	5.6 ppt

Notes:

¹ Defined as the half-life of the gas.

² Compared to the same quantity of CO₂ emissions and is based on the Intergovernmental Panel On Climate Change (IPCC) 2007 standard, which is utilized in CalEEMod (Version 2022.1), that is used in this report (CalEEMod user guide: Appendix A).

Definitions: ppm = parts per million; ppb = parts per billion; ppt = parts per trillion

Source: IPCC 2007, EPA 2015

3.3 Greenhouse Gas Emissions Inventory

According to the Carbon Dioxide Information Analysis Center¹, 9,855 million metric tons (MMT) of CO₂e emissions were created globally in the year 2014. According to the Environmental Protection Agency (EPA), the breakdown of global GHG emissions by sector consists of: 25 percent from electricity and heat production; 21 percent from industry; 24 percent from agriculture, forestry and other land use activities; 14 percent from transportation; 6 percent from building energy use; and 10 percent from all other sources of energy use².

According to *Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2020*, prepared by EPA, in 2020 total U.S. GHG emissions were 5,981.4 million metric tons (MMT) of CO₂e emissions. Total U.S. emissions have decreased by 7.3 percent between 1990 and 2020, which is down from a high of 15.7 percent above 1990 levels in 2007. Emissions decreased from 2019 to 2020 by 9.0 percent. The sharp decline in emissions from 2019 to 2020 is largely due to the impacts of the coronavirus pandemic on travel and economic activity.

According to *California Greenhouse Gas Emissions for 2000 to 2020 Trends of Emissions and Other Indicators*, prepared by the CARB, October 26, 2022, the State of California created 369.2 million metric tons of carbon dioxide equivalent (MMTCO₂e) in 2020. The 2020 emissions were 35.3 MMTCO₂e lower than 2019 levels and almost 61.8 MMTCO₂e below the State adopted year 2020 GHG limit of 431 MMTCO₂e. The 2019 to 2020 decrease in emissions is likely an anomaly as it was due in large part to the impacts of the COVID-19 pandemic. The transportation sector showed the largest decline in emissions of 27 MMTCO₂e (16 percent) compared to 2019. Between 2019 and 2020, California's Gross Domestic Product (GDP) contracted 2.8 percent, while GHG intensity of California's economy decreased 6.2 percent.

1 Obtained from: https://cdiac.ess-dive.lbl.gov/trends/emis/tre_glob_2014.html

2 Obtained from: <https://www.epa.gov/ghgemissions/global-greenhouse-gas-emissions-data>

4.0 AIR QUALITY MANAGEMENT

The air quality at the project site is addressed through the efforts of various federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

4.1 Federal – United States Environmental Protection Agency

The Clean Air Act, first passed in 1963 with major amendments in 1970, 1977 and 1990, is the overarching legislation covering regulation of air pollution in the United States. The Clean Air Act has established the mandate for requiring regulation of both mobile and stationary sources of air pollution at the state and federal level. The EPA was created in 1970 in order to consolidate research, monitoring, standard-setting and enforcement authority into a single agency.

The EPA is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. NAAQS pollutants were identified using medical evidence and are shown below in Table B.

Table B – State and Federal Criteria Pollutant Standards

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O ₃)	0.09 ppm / 1-hour	0.070 ppm, / 8-hour	a) Pulmonary function decrements and localized lung injury in humans and animals; (b) asthma exacerbation; (c) chronic obstructive pulmonary disease (COPD) exacerbation; (d) respiratory infection; (e) increased school absences, and hospital admissions and emergency department (ED) visits for combined respiratory diseases; (e) increased mortality; (f) possible metabolic effects. Vegetation damage; property damage
	0.07 ppm / 8-hour		
Carbon Monoxide (CO)	20.0 ppm / 1-hour	35.0 ppm / 1-hour	Visibility reduction (a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) possible impairment of central nervous system functions; (d) possible increased risk to fetuses; (f) possible increased risk of pulmonary disease; (g) possible emergency department visits for respiratory diseases overall and visits for asthma.
	9.0 ppm / 8-hour	9.0 ppm / 8-hour	
Nitrogen Dioxide (NO ₂)	0.18 ppm / 1-hour	100 ppb / 1-hour	Short-term (a) asthma exacerbations (“asthma attacks”) Long-term (a) asthma development; (b) higher risk of all-cause, cardiovascular, and respiratory mortality. Both short and long term NO ₂ exposure is also associated with chronic obstructive pulmonary disease (COPD) risk. Potential impacts on cardiovascular health, mortality and cancer, aggravate chronic respiratory disease. Contribution to atmospheric discoloration
	0.030 ppm / annual	0.053 ppm / annual	

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Sulfur Dioxide (SO ₂)	0.25 ppm / 1-hour 0.04 ppm / 24-hour	75 ppb / 1-hour	Respiratory symptoms (bronchoconstriction, possible wheezing or shortness of breath) during exercise or physical activity in persons with asthma. Possible allergic sensitization, airway inflammation, asthma development.
Respirable Particulate Matter (PM ₁₀)	50 µg/m ³ / 24-hour 20 µg/m ³ / annual	150 µg/m ³ / 24-hour	Short -term (a) increase in mortality rates; (b) increase in respiratory infections; (c) increase in number and severity of asthma attacks; (d) COPD exacerbation; (e) increase in combined respiratory-diseases and number of hospital admissions; (f) increased mortality due to cardiovascular or respiratory diseases; (g) increase in hospital admissions for acute respiratory conditions; (h) increase in school absences; (i) increase in lost work days; (j) decrease in respiratory function in children; (k) increase medication use in children and adults with asthma.
Suspended Particulate Matter (PM _{2.5})	12 µg/m ³ / annual	35 µg/m ³ / 24-hour 12 µg/m ³ / annual	Long-term (a) reduced lung function growth in children; (b) changes in lung development; (c) development of asthma in children; (d) increased risk of cardiovascular diseases; (e) increased total mortality from lung cancer; (f) increased risk of premature death. Possible link to metabolic, nervous system, and reproductive and developmental effects for short-term and long-term exposure to PM _{2.5} .
Sulfates	25 µg/m ³ / 24-hour	No Federal Standards	(a) Decrease in lung function; (b) aggravation of asthmatic symptoms; (c) vegetation damage; (d) Degradation of visibility; (e) property damage
Lead	1.5 µg/m ³ / 30-day	0.15 µg/m ³ / 3-month rolling	(a) Learning disabilities; (b) impairment of blood formation and nerve function; (c) cardiovascular effects, including coronary heart disease and hypertension Possible male reproductive system effects
Hydrogen Sulfide	0.03 ppm / 1-hour	No Federal Standards	Exposure to lower ambient concentrations above the standard may result in objectionable odor and may be accompanied by symptoms such as headaches, nausea, dizziness, nasal irritation, cough, and shortness of breath

Source: 2022 AQMP, SCAQMD, 2022.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The SIP must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the SIP. The CARB defines attainment as the category given to an area with no violations in the past three years. As indicated below in Table C, the Air Basin has been designated by EPA for the national standards as a non-attainment area for ozone and PM_{2.5} and partial non-attainment for lead. Currently, the Air Basin is in attainment with the national ambient air quality standards for CO, PM₁₀, SO₂, and NO₂.

Table C – National Air Quality Standards Attainment Status – South Coast Air Basin

Criteria Pollutant	Averaging Time	Designation ^a	Attainment Date ^b
Ozone	1979 1-Hour (0.12 ppm)	Nonattainment (Extreme)	2/6/2023 (revised deadline)
	2015 8-Hour (0.07 ppm) ^d	Nonattainment (Extreme)	8/3/2038
	2008 8-Hour (0.075 ppm) ^d	Nonattainment (Extreme)	7/20/2032
	1997 8-Hour (0.08 ppm) ^d	Nonattainment (Extreme)	6/15/2024
PM2.5 ^e	2006 24-Hour (35 µg/m ³)	Nonattainment (Serious)	12/31/2019
	2012 Annual (12 µg/m ³)	Nonattainment (Serious)	12/31/2021
	1997 Annual (15 µg/m ³)	Attainment (final determination pending)	4/5/2015 (attained 2013)
PM10 ^f	1987 24-Hour (150 µg/m ³)	Attainment (Maintenance)	7/26/2013 (attained)
Lead ^g	2008 3-Months Rolling (0.15 µg/m ³)	Nonattainment (Partial) (Attainment determination requested)	12/31/2015
CO	1971 1-Hour (35 ppm)	Attainment (Maintenance)	6/11/2007
	1971 8-Hour (9 ppm)	Attainment (Maintenance)	6/11/2007
NO ₂ ^h	2010 1-Hour (100 ppb)	Unclassifiable/Attainment	N/A (attained)
	1971 Annual (0.053 ppm)	Attainment (Maintenance)	9/22/1998 (attained)
SO ₂ ⁱ	2010 1-Hour (75 ppb)	Unclassifiable/Attainment	1/9/2018
	1971 24-Hour (0.14 ppm)	Unclassifiable/Attainment	3/19/1979

Source: SCAQMD, 2022

Notes:

a) U.S. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassifiable/Attainment or Unclassifiable.

b) A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for attainment demonstration.

c) The 1979 1-hour ozone NAAQS (0.12 ppm) was revoked, effective June 15, 2005; however, the Basin has not attained this standard and therefore has some continuing obligations with respect to the revoked standard; original attainment date was 11/15/2010; the revised attainment date is 2/6/2023.

d) The 2008 8-hour ozone NAAQS (0.075 ppm) was revised to 0.070 ppm, effective 12/28/2015 with classifications and implementation goals to be finalized by 10/1/2017; the 1997 8-hour ozone NAAQS (0.08 ppm) was revoked in the 2008 ozone implementation rule, effective 4/6/2015; there are continuing obligations under the revoked 1997 and revised 2008 ozone NAAQS until they are attained.

e) The attainment deadline for the 2006 24-Hour PM2.5 NAAQS was 12/31/15 for the former “moderate” classification; the EPA approved reclassification to “serious”, effective 2/12/16 with an attainment deadline of 12/31/2019; the 2012 (proposal year) annual PM2.5 NAAQS was revised on 1/15/2013, effective 3/18/2013, from 15 to 12 µg/m³; new annual designations were final 1/15/2015, effective 4/15/2015; on 7/25/2016 the EPA finalized a determination that the Basin attained the 1997 annual (15.0 µg/m³) and 24-hour PM2.5 (65 µg/m³) NAAQS, effective 8/24/2016.

f) The annual PM10 standard was revoked, effective 12/18/2006; the 24-hour PM10 NAAQS deadline was 12/31/2006; the Basin’s Attainment Re-designation Request and PM10 Maintenance Plan was approved by the EPA on 6/26/2103, effective 7/26/2013.

g) Partial Nonattainment designation – Los Angeles County portion of the Basin only for near-source monitors; expect to remain in attainment based on current monitoring data; attainment re-designation request pending.

h) New 1-hour NO₂ NAAQS became effective 8/2/2010, with attainment designations 1/20/2012; annual NO₂ NAAQS retained.i) The 1971 annual and 24-hour SO₂ NAAQS were revoked, effective 8/23/2010.

Despite substantial improvements in air quality over the past few decades, some air monitoring stations in the Air Basin still exceed the NAAQS and frequently record the highest ozone levels in the United States. In 2020, monitoring stations in the Air Basin exceeded the most current federal standards on a total of 181 days (49 percent of the year), including: 8-hour ozone (157 days over the 2015 ozone NAAQS), 24-hour PM2.5 (39 days), PM10 (3 days), and NO₂ (1 day). Nine of the top 10 stations in the nation most frequently exceeding the 2015 8-hour ozone NAAQS in 2020 were located within the Air Basin, including stations in San Bernardino, Riverside, and Los Angeles Counties (SCAQMD, 2022).

PM2.5 levels in the Air Basin have improved significantly in recent years. Since 2015, none of the monitoring stations in the Air Basin have recorded violations of the former 1997 annual PM2.5 NAAQS (15.0 µg/m³). On July 25, 2016 the U.S. EPA finalized a determination that the Air Basin attained the 1997 annual (15.0 µg/m³) and 24-hour PM2.5 (65 µg/m³) NAAQS, effective August 24, 2016. However, the Air Basin does not meet the 2012 annual PM2.5 NAAQS (12.0 µg/m³), with six monitoring stations having design values above the standard for the 2018-2020 period (SCAQMD, 2022).

4.2 State – California Air Resources Board

The CARB, which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the SIP. The CAAQS for criteria pollutants in the Air Basin are shown in Table D. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g. hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

Table D – California Ambient Air Quality Standards Attainment Status – South Coast Air Basin

Criteria Pollutant	Averaging Time	Level ^a	Designation ^b
Ozone	1-Hour	0.09 ppm	Nonattainment
	8-Hour	0.070 ppm	Nonattainment
PM2.5	Annual	12 µg/m ³	Nonattainment
PM10	24-Hour	50 µg/m ³	Nonattainment
	Annual	20 µg/m ³	Nonattainment
Lead	30-Day Average	1.5 µg/m ³	Attainment
CO	1-Hour	20 ppm	Attainment
	8-Hour	9.0 ppm	Attainment
NO ₂	1-Hour	0.18 ppm	Attainment
	Annual	0.030	Attainment ^c
SO ₂	1-Hour	0.25 ppm	Attainment
	24-Hour	0.04 ppm	Attainment
Sulfates	24-Hour	25 µg/m ³	Attainment
Hydrogen Sulfide	1-Hour	0.03 ppm	Unclassified

Source: SCAQMD, 2022

Notes:

a) CA State standards, or CAAQS, for ozone, SO₂, NO₂, PM10 and PM2.5 are values not to be exceeded; lead, sulfates and H₂S standards are values 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) CA State designations shown were updated by CARB in 2019, based on the 2016-2018 3-year period; stated designations are based on a 3-year data period after consideration of outliers and exceptional events.

c) The CA-60 near road portion of San Bernardino, Riverside and Los Angeles Counties has recently been redesignated as an attainment area based on data collected between 2018 and 2020

As shown in Table D, the Air Basin has been designated by the CARB as a non-attainment area for ozone, PM10 and PM2.5 and partial nonattainment for NO₂. Currently, the Air Basin is in attainment with the ambient air quality standards for lead, CO, SO₂ and sulfates, and is unclassified for Hydrogen Sulfide.

The following lists the State of California Code of Regulations (CCR) air quality emission rules that are applicable, but not limited to all residential projects in the State.

Assembly Bill 2588

The Air Toxics “Hot Spots” Information and Assessment Act (Assembly Bill [AB] 2588, 1987, Connelly) was enacted in 1987 as a means to establish a formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release in California. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

CARB Regulation for In-Use Off-Road Diesel Vehicles

On July 26, 2007, the CARB adopted California Code of Regulations Title 13, Article 4.8, Chapter 9, Section 2449 to reduce DPM and NOx emissions from in-use off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than five consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. Performance requirements of the rule are based on a fleet’s average NOx emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The regulation was amended in 2010 to delay the original timeline of the performance requirement making the first compliance deadline January 1, 2014 for large fleets (over 5,000 horsepower), 2017 for medium fleets (2,501-5,000 horsepower), and 2019 for small fleets (2,500 horsepower or less). Currently, no commercial operation in California may add any equipment to their fleet that has a Tier 0, Tier 1, or Tier 2 engine. It should be noted that commercial fleets may continue to use their existing Tier 0, 1 and 2 equipment, if they can demonstrate that the average emissions from their entire fleet emissions meet the NOx emissions targets.

CARB Resolution 08-43 for On-Road Diesel Truck Fleets

On December 12, 2008 the CARB adopted Resolution 08-43, which limits NOx, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009 Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California shall meet model year 2010 (Tier 4 Final) or latter emission standards. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California. All on-road diesel trucks utilized during construction of the proposed project will be required to comply with Resolution 08-43.

4.3 Regional – Southern California

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin. To that end, as a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

South Coast Air Quality Management District

SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs. The *Final 2022 Air Quality Management Plan* (2022 AQMP) was adopted by ARB on January 26, 2023 and has been submitted to the U.S. EPA for final approval, which is anticipated to occur sometime this year. After the 2022 AQMP

has been adopted by the U.S. EPA, the 2022 AQMP will be incorporated into the State Implementation Plan (SIP). The 2022 AQMP establishes actions and strategies to reduce ozone levels to the U.S. EPA 2015 ozone standard of 70 ppb by 2037. The 2022 AQMP promotes extensive use of zero-emission technologies across all stationary and mobile sources coupled with rules and regulations, investment strategies, and incentives.

Although SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the Air Basin. Instead, this is controlled through local jurisdictions in accordance to the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the *CEQA Air Quality Handbook* (SCAQMD CEQA Handbook), prepared by SCAQMD, 1993, with the most current updates found at <http://www.aqmd.gov/ceqa/hdbk.html>, was developed in accordance with the projections and programs detailed in the AQMPs. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. The SCAQMD intends that by providing this guidance, the air quality impacts of plans and development proposals will be analyzed accurately and consistently throughout the Air Basin, and adverse impacts will be minimized.

The following lists the SCAQMD rules that are applicable but not limited to residential development projects in the Air Basin.

Rule 402 - Nuisance

Rule 402 prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which causes injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. Compliance with Rule 402 will reduce local air quality and odor impacts to nearby sensitive receptors.

Rule 403- Fugitive Dust

Rule 403 governs emissions of fugitive dust during construction activities and requires that no person shall cause or allow the emissions of fugitive dust such that dust remains visible in the atmosphere beyond the property line or the dust emission exceeds 20 percent opacity, if the dust is from the operation of a motorized vehicle. Compliance with this rule is achieved through application of standard Best Available Control Measures, which include but are not limited to the measures below. Compliance with these rules would reduce local air quality impacts to nearby sensitive receptors.

- Utilize either a pad of washed gravel 50 feet long, 100 feet of paved surface, a wheel shaker, or a wheel washing device to remove material from vehicle tires and undercarriages before leaving project site.
- Do not allow any track out of material to extend more than 25 feet onto a public roadway and remove all track out at the end of each workday.

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- Water all exposed areas on active sites at least three times per day and pre-water all areas prior to clearing and soil moving activities.
 - Apply nontoxic chemical stabilizers according to manufacturer specifications to all construction areas that will remain inactive for 10 days or longer.
 - Pre-water all material to be exported prior to loading, and either cover all loads or maintain at least 2 feet of freeboard in accordance with the requirements of California Vehicle Code Section 23114.
 - Replant all disturbed area as soon as practical.
 - Suspend all grading activities when wind speeds (including wind gusts) exceed 25 miles per hour.
 - Restrict traffic speeds on all unpaved roads to 15 miles per hour or less.

Rules 1108 and 1108.1 – Cutback and Emulsified Asphalt

Rules 1108 and 1108.1 govern the sale, use, and manufacturing of asphalt and limits the VOC content in asphalt. This rule regulates the VOC contents of asphalt used during construction as well as any on-going maintenance during operations. Therefore, all asphalt used during construction and operation of the proposed project must comply with SCAQMD Rules 1108 and 1108.1.

Rule 1113 – Architectural Coatings

Rule 1113 governs the sale, use, and manufacturing of architectural coatings and limits the VOC content in sealers, coatings, paints and solvents. This rule regulates the VOC contents of paints available during construction. Therefore, all paints and solvents used during construction and operation of the proposed project must comply with SCAQMD Rule 1113.

Rule 1143 – Paint Thinners

Rule 1143 governs the sale, use, and manufacturing of paint thinners and multi-purpose solvents that are used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations. This rule regulates the VOC content of solvents used during construction. Solvents used during construction and operation of the proposed project must comply with SCAQMD Rule 1143.

Southern California Association of Governments

The SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the federally designated Metropolitan Planning Organization (MPO) for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the *2020-2045 Regional Transportation Plan/Sustainable Communities Strategy* (Connect SoCal), adopted September 3, 2020 and the *2019 Federal Transportation Improvement Program* (2019 FTIP), adopted September 2018, which addresses regional development and growth forecasts. Although the Connect SoCal and 2019 FTIP are primarily planning documents for future transportation projects a key component of these plans are to integrate land use planning with transportation planning that promotes higher density infill development in close proximity to existing transit service. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Connect SoCal, 2019 FTIP, and AQMP are based on projections originating within the City and County General Plans.

4.4 Local – City of Meniffee

Local jurisdictions, such as the City of Meniffee, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the AQMPs. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

In accordance with the CEQA requirements, the City does not, however, have the expertise to develop plans, programs, procedures, and methodologies to ensure that air quality within the City and region will meet federal and state standards. Instead, the City relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

5.0 ENERGY CONSERVATION MANAGEMENT

The regulatory setting related to energy conservation is primarily addressed through State and City regulations, which are discussed below.

5.1 State

Energy conservation management in the State was initiated by the 1974 Warren-Alquist State Energy Resources Conservation and Development Act that created the California Energy Resource Conservation and Development Commission (currently named California Energy Commission [CEC]), which was originally tasked with certifying new electric generating plants based on the need for the plant and the suitability of the site of the plant. In 1976 the Warren-Alquist Act was expanded to include new restrictions on nuclear generating plants, that effectively resulted in a moratorium of any new nuclear generating plants in the State. The following details specific regulations adopted by the State in order to reduce the consumption of energy.

California Code of Regulations (CCR) Title 20

On November 3, 1976 the CEC adopted the *Regulations for Appliance Efficiency Standards Relating to Refrigerators, Refrigerator-Freezers and Freezers and Air Conditioners*, which were the first energy-efficiency standards for appliances. The appliance efficiency regulations have been updated several times by the Commission and the most current version is the *2016 Appliance Efficiency Regulations*, adopted January 2017 and now includes almost all types of appliances and lamps that use electricity, natural gas as well as plumbing fixtures. The authority for the CEC to control the energy-efficiency of appliances is detailed in California Code of Regulations (CCR), Title 20, Division 2, Chapter 4, Article 4, Sections 1601-1609.

California Code of Regulations (CCR) Title 24, Part 6

The CEC is also responsible for implementing the CCR Title 24, Part 6: *California's Energy Efficiency Standards for Residential and Nonresidential Buildings* (Title 24 Part 6) that were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. In 2008 the State set an energy-use reduction goal of zero-net-energy use of all new homes by 2020 and the CEC was mandated to meet this goal through revisions to the Title 24, Part 6 regulations.

The Title 24 standards are updated on a three-year schedule and since 2008 the standards have been incrementally moving to the 2020 goal of the zero-net-energy use. The 2022 Title 24 standards are the current standards that went into effect on January 1, 2023.

According to the Title 24 Part 6 Fact Sheet, the CEC estimates that over 30 years the 2022 Title 24 standards will reduce 10 MMTCO₂e of GHG emissions, which is equivalent to taking nearly 2.2 million cars off the road for a year. For single-family homes, the CEC estimates that the 2022 Title 24 changes from using natural gas furnaces to electric heat pumps to heat new homes and would reduce net CO₂ emissions by 16,230 MTCO₂e per year, when compared to the 2019 Title 24 standards, which is equivalent of taking 3,641 gas cars off the road each year. The 2022 Title 24 standards will: (1) Increase onsite renewable energy generation; (2) Increases electric load flexibility to support grid reliability; (3) Reduces emissions from newly constructed buildings; (4) Reduces air pollution for improved public health; and (5) Encourages adoption of environmentally beneficial efficient electric technologies.

California Code of Regulations (CCR) Title 24, Part 11

CCR Title 24, Part 11: *California Green Building Standards* (CalGreen) was developed in response to continued efforts to reduce GHG emissions associated with energy consumption. The CalGreen Building Standards are also updated every three years and the current version is the 2019 California Green Building Standard Code that become effective on January 1, 2020.

The CALGreen Code contains requirements for construction site selection; storm water control during construction; construction waste reduction; indoor water use reduction; material selection; natural resource conservation; site irrigation conservation; and more. The code provides for design options allowing the designer to determine how best to achieve compliance for a given site or building condition. The code also requires building commissioning, which is a process for verifying that all building systems (e.g., heating and cooling equipment and lighting systems) are functioning at their maximum efficiency.

The CALGreen Code provides standards for bicycle parking, carpool/vanpool/electric vehicle spaces, light and glare reduction, grading and paving, energy efficient appliances, renewable energy, graywater systems, water efficient plumbing fixtures, recycling and recycled materials, pollutant controls (including moisture control and indoor air quality), acoustical controls, storm water management, building design, insulation, flooring, and framing, among others. Implementation of the CALGreen Code measures reduces energy consumption and vehicle trips and encourages the use of alternative-fuel vehicles, which reduces pollutant emissions.

Some of the notable changes in the 2022 CalGreen Code over the prior 2019 CalGreen Code for nonresidential development mandatory requirements include repeal of the designated parking spaces for clean air vehicles, an increase in the number of electric vehicle (EV) ready parking spaces and a new requirement for installed Level 2 or DCFC EV charging stations for autos and added EV charging readiness requirements to loading docks, enhanced thermal insulation requirements, and acoustical ceilings are now required.

Executive Order N-79-20

The California Governor issued Executive Order N-79-20 on September 23, 2020 that requires all new passenger cars and trucks and commercial drayage trucks sold in California to be zero-emissions by the year 2035 and all medium- heavy-duty vehicles (commercial trucks) sold in the state to be zero-emission by 2045 for all operations where feasible. Executive Order N-79-20 also requires all off-road vehicles and equipment to transition to 100 percent zero-emission equipment, where feasible by 2035.

Senate Bill 100

Senate Bill 100 (SB 100) was adopted September 2018 and requires that by December 1, 2045 that 100 percent of retail sales of electricity to be generated from renewable or zero-carbon emission sources of electricity. SB 100 supersedes the renewable energy requirements set by SB 350, SB 1078, SB 107, and SB X1-2. However, the interim renewable energy thresholds from the prior Bills of 44 percent by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030, will remain in effect.

Executive Order B-48-18 and Assembly Bill 2127

The California Governor issued Executive Order B-48-18 on January 26, 2018 that orders all state entities to work with the private sector to put at least five million zero-emission vehicles on California roads by 2030 and to install 200 hydrogen fueling stations and 250,000 electric vehicle chargers by 2025. Currently

there are approximately 350,000 electric vehicles operating in California, which represents approximately 1.5 percent of the 24 million vehicles total currently operating in California. Implementation of Executive Order B-48-18 would result in approximately 20 percent of all vehicles in California to be zero emission electric vehicles. Assembly Bill 2127 (AB 2127) was codified into statute on September 13, 2018 and requires that the CEC working with CARB prepare biannual assessments of the statewide electric vehicle charging infrastructure needed to support the levels of zero emission vehicle adoption required for the State to meet its goals of putting at least 5 million zero-emission vehicles on California roads by 2030.

Assembly Bill 1109

California Assembly Bill 1109 (AB 1109) was adopted October 2007, also known as the Lighting Efficiency and Toxics Reduction Act, prohibits the manufacturing of lights after January 1, 2010 that contain levels of hazardous substances prohibited by the European Union pursuant to the RoHS Directive. AB 1109 also requires reductions in energy usage for lighting and is structured to reduce lighting electrical consumption by: (1) At least 50 percent reduction from 2007 levels for indoor residential lighting; and (2) At least 25 percent reduction from 2007 levels for indoor commercial and all outdoor lighting by 2018. AB 1109 would reduce GHG emissions through reducing the amount of electricity required to be generated by fossil fuels in California.

Assembly Bill 1493

California Assembly Bill 1493 (also known as the Pavley Bill, in reference to its author Fran Pavley) was enacted on July 22, 2002 and required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2004, CARB approved the “Pavley I” regulations limiting the amount of GHGs that may be released from new passenger automobiles that are being phased in between model years 2009 through 2016. These regulations will reduce GHG emissions by 30 percent from 2002 levels by 2016. In June 2009, the EPA granted California the authority to implement GHG emission reduction standards for light duty vehicles, in September 2009, amendments to the Pavley I regulations were adopted by CARB and implementation of the “Pavley I” regulations started in 2009.

The second set of regulations “Pavley II” was developed in 2010, and is being phased in between model years 2017 through 2025 with the goal of reducing GHG emissions by 45 percent by the year 2020 as compared to the 2002 fleet. The Pavley II standards were developed by linking the GHG emissions and formerly separate toxic tailpipe emissions standards previously known as the “LEV III” (third stage of the Low Emission Vehicle standards) into a single regulatory framework. The new rules reduce emissions from gasoline-powered cars as well as promote zero-emissions auto technologies such as electricity and hydrogen, and through increasing the infrastructure for fueling hydrogen vehicles. In 2009, the U.S. EPA granted California the authority to implement the GHG standards for passenger cars, pickup trucks and sport utility vehicles and these GHG emissions standards are currently being implemented nationwide.

The EPA has performed a midterm evaluation of the longer-term standards for model years 2022-2025, and based on the findings of this midterm evaluation, the EPA proposed The Safer Affordable Fuel Efficient (SAFE) Vehicles Proposed Rule for Model Years 2021-2026 that amends the corporate average fuel economy (CAFE) and GHG emissions standards for light vehicles for model years 2021 through 2026. The SAFE Vehicles Rule was published on April 30, 2020 and made effective on June 29, 2020.

5.2 Local - City of Meniffee

The applicable energy plan for the proposed project is the *City of Meniffee General Plan Open Space and Conservation Element*, adopted 2013. The energy-related goals and policies from the Open Space Conservation Element are shown below.

Goal OSC-4: Efficient and environmentally use and management of energy and mineral resources to ensure their availability for future generations.

Policies

- OCS-4.1: Apply energy efficiency and conservation practices in land use, transportation demand management, and subdivision and building design.
- OCS-4.2: Evaluate public and private efforts to develop and operate alternative systems of energy production, including solar, wind, and fuel cell.
- OCS-4.3: Advocate for cost-effective and reliable production and delivery of electrical power to residents and businesses throughout the community.
- OCS-4.4: Require that any future mining activities be in compliance with the State Mining Reclamation Act, federal and state environmental regulations, and local ordinances.
- OCS-4.5: Limit the impacts of mining operations on the city's natural open space, biological and scenic resources, cultural resources and landscapes, and any adjacent land uses.

6.0 GLOBAL CLIMATE CHANGE MANAGEMENT

The regulatory setting related to global climate change is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to reduce GHG emissions through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for global climate change regulations are discussed below.

6.1 International

In 1988, the United Nations established the IPCC to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. The parties of the UNFCCC adopted the Kyoto Protocol, which set binding GHG reduction targets for 37 industrialized countries, the objective of reducing their collective GHG emissions by five percent below 1990 levels by 2012. The Kyoto Protocol has been ratified by 182 countries, but has not been ratified by the United States. It should be noted that Japan and Canada opted out of the Kyoto Protocol and the remaining developed countries that ratified the Kyoto Protocol have not met their Kyoto targets. The Kyoto Protocol expired in 2012 and the amendment for the second commitment period from 2013 to 2020 has not yet entered into legal force. The Parties to the Kyoto Protocol negotiated the Paris Agreement in December 2015, agreeing to set a goal of limiting global warming to less than 2 degrees Celsius compared with pre-industrial levels. The Paris Agreement has been adopted by 195 nations with 147 ratifying it, including the United States by President Obama, who ratified it by Executive Order on September 3, 2016. On June 1, 2017, President Trump announced that the United States is withdrawing from the Paris Agreement and on January 21, 2021 President Biden signed an executive order rejoining the Paris Agreement.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

6.2 Federal – United States Environmental Protection Agency

The United States Environmental Protection Agency (EPA) is responsible for implementing federal policy to address global climate change. The Federal government administers a wide array of public-private partnerships to reduce U.S. GHG intensity. These programs focus on energy efficiency, renewable energy, methane, and other non-CO₂ gases, agricultural practices and implementation of technologies to achieve GHG reductions. EPA implements several voluntary programs that substantially contribute to the reduction of GHG emissions.

In *Massachusetts v. Environmental Protection Agency* (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO₂ and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions did not impose any requirements on industry or other entities, however, since 2009 the EPA has been providing GHG emission standards for vehicles and other stationary sources of GHG emissions that are regulated by the EPA. On September 13, 2013 the EPA Administrator signed 40 CFR Part 60, that limits emissions from new sources to 1,100 pounds of CO₂ per mega-watt hour (MWh) for fossil fuel-fired utility boilers and 1,000 pounds of CO₂ per MWh for large natural gas-fired combustion units.

On August 3, 2015, the EPA announced the Clean Power Plan, emissions guidelines for U.S. states to follow in developing plans to reduce GHG emissions from existing fossil fuel-fired power plants (Federal Register Vol. 80, No. 205, October 23 2015). On October 11, 2017, the EPA issued a formal proposal to repeal the Clean Power Plan and on June 19, 2019 the EPA replaced the Clean Power Plan with the Affordable Clean Energy rule that is anticipated to lower power sector GHG emissions by 11 million tons by the year 2030.

On April 30, 2020, the EPA and the National Highway Safety Administration published the Final Rule for the *Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks* (SAFE Vehicles Rule). Part One of the Rule revokes California's authority to set its own GHG emissions standards and zero-emission vehicle mandates in California, which results in one emission standard to be used nationally for all passenger cars and light trucks that is set by the EPA.

6.3 State

The CARB has the primary responsible for implementing state policy to address global climate change, however there are State regulations related to global climate change that affect a variety of State agencies. CARB, which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both the federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the SIP. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g. hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In 2008, CARB approved a Climate Change Scoping Plan that proposes a "comprehensive set of actions designed to reduce overall carbon GHG emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health" (CARB 2008). The Climate Change Scoping Plan has a range of GHG reduction actions which include direct

regulations; alternative compliance mechanisms; monetary and non-monetary incentives; voluntary actions; market-based mechanisms such as a cap-and-trade system. In 2014, CARB approved the First Update to the Climate Change Scoping Plan (CARB, 2014) that identifies additional strategies moving beyond the 2020 targets to the year 2050. On December 14, 2017 CARB adopted the California's 2017 Climate Change Scoping Plan, November 2017 (CARB, 2017) that provides specific statewide policies and measures to achieve the 2030 GHG reduction target of 40 percent below 1990 levels by 2030 and the aspirational 2050 GHG reduction target of 80 percent below 1990 levels by 2050. In addition, the State has passed the following laws directing CARB to develop actions to reduce GHG emissions, which are listed below in chronological order, with the most current first.

Executive Order B-55-18 and Assembly Bill 1279

The California Governor issued Executive Order B-55-18 in September 2018 that establishes a new statewide goal to achieve carbon neutrality as soon as possible, but no later than 2045. This executive order directs the CARB to work with relevant State agencies to develop a framework for implementation and accounting that tracks progress toward this goal as well as ensuring future scoping plans identify and recommend measures to achieve this carbon neutrality goal. Assembly Bill 1279 was passed by the legislature in September 2022 that codifies the carbon neutrality targets provided in Executive Order B-55-18. The *2022 Scoping Plan for Achieving Carbon Neutrality*, adopted by CARB on December 16, 2022, was prepared in order to meet the carbon neutrality goal targets developed in Executive Order B-55-18 and codified in Assembly Bill 1279.

Executive Order N-79-20

EO N-79-20 establish targets for when all new vehicles and equipment are zero-emission and is described in more detail above in Section 5.1 under Energy Conservation Management.

California Code of Regulations (CCR) Title 24, Part 6

The Title 24 Part 6 standards have been developed by the CEC primarily for energy conservation and is described in more detail above in Section 5.1 under Energy Conservation Management. It should be noted that implementation of the Title 24 Part 6 building standards would also reduce GHG emissions, since as detailed above in Section 3.3 Greenhouse Gas Emissions Inventory, energy use for residential and commercial buildings creates 9.7 percent of the GHG emissions in the State.

California Code of Regulations (CCR) Title 24, Part 11

The CalGreen Building standards have been developed by the CEC primarily for energy conservation and is described in more detail above in Section 5.1 under Energy Conservation Management. It should be noted that implementation of the CalGreen Building standards would also reduce GHG emissions, since as detailed above under Title 23, Part 6, energy usage from buildings creates 9.7 percent of GHG emissions in the State.

Senate Bill 100

SB 100 requires that by December 1, 2045 that 100 percent of retail sales of electricity to be generated from renewable or zero-carbon emission sources of electricity and is described in more detail above in Section 5.1 under Energy Conservation Management.

Executive Order B-48-18 and Assembly Bill 2127

Executive Order B-48-18 and AB 2127 provides measures to put at least five million zero-emission vehicles on California roads by 2030 and to install 200 hydrogen fueling stations and 250,000 electric vehicle chargers by 2025 and is described in more detail above in Section 5.1 under Energy Conservation Management.

Executive Order B-30-15, Senate Bill 32 and Assembly Bill 197

The California Governor issued Executive Order B-30-15 on April 29, 2015 that aims to reduce California's GHG emissions 40 percent below 1990 levels by 2030. This executive order aligns California's GHG reduction targets with those of other international governments, such as the European Union that set the same target for 2030 in October, 2014. This target will make it possible to reach the ultimate goal of reducing GHG emissions 80 percent under 1990 levels by 2050 that is based on scientifically established levels needed in the U.S.A to limit global warming below 2 degrees Celsius – the warming threshold at which scientists say there will likely be major climate disruptions such as super droughts and rising sea levels. Assembly Bill 197 (AB 197) (September 8, 2016) and Senate Bill 32 (SB 32) (September 8, 2016) codified into statute the GHG emissions reduction targets of at least 40 percent below 1990 levels by 2030 as detailed in Executive Order B-30-15. AB 197 also requires additional GHG emissions reporting that is broken down to sub-county levels and requires CARB to consider the social costs of emissions impacting disadvantaged communities.

Executive Order B-29-15

The California Governor issued Executive Order B-29-15 on April 1, 2015 and directed the State Water Resources Control Board to impose restrictions to achieve a statewide 25% reduction in urban water usage and directed the Department of Water Resources to replace 50 million square feet of lawn with drought tolerant landscaping through an update to the State's Model Water Efficient Landscape Ordinance. The Ordinance also requires installation of more efficient irrigation systems, promotion of greywater usage and onsite stormwater capture, and limits the turf planted in new residential landscapes to 25 percent of the total area and restricts turf from being planted in median strips or in parkways unless the parkway is next to a parking strip and a flat surface is required to enter and exit vehicles. Executive Order B-29-15 would reduce GHG emissions associated with the energy used to transport and filter water.

Assembly Bill 341 and Senate Bills 939 and 1374

Senate Bill 939 (SB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004 suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills. Assembly Bill 341 (AB 341) was adopted in 2011 and builds upon the waste reduction measures of SB 939 and 1374, and sets a new target of a 75 percent reduction in solid waste generated by the year 2020.

Senate Bill 375

Senate Bill 375 (SB 375) was adopted September 2008 in order to support the State's climate action goals to reduce GHG emissions through coordinated regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires CARB to set regional targets for GHG emissions reductions from passenger vehicle use. In 2010, CARB established targets for 2020 and 2035 for each Metropolitan Planning Organizations (MPO) within the State. It was up to each

MPO to adopt a sustainable communities strategy (SCS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP) to meet CARB's 2020 and 2035 GHG emission reduction targets. These reduction targets are required to be updated every eight years and the most current targets are detailed at: <https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets>, which provides GHG emissions reduction targets for SCAG of 8 percent by 2020 and 19 percent by 2035.

The Connect SoCal (SCAG, 2020) provides a 2035 GHG emission reduction target of 19 percent reduction over the 2005 per capita emissions levels. The Connect SoCal include new initiatives of land use, transportation and technology to meet the 2035 new 19 percent GHG emission reduction target for 2035. CARB is also charged with reviewing SCAG's RTP/SCS for consistency with its assigned targets.

City and County land use policies, including General Plans, are not required to be consistent with the RTP and associated SCS. However, new provisions of CEQA incentivize, through streamlining and other provisions, qualified projects that are consistent with an approved SCS and categorized as "transit priority projects."

Assembly Bill 1109

AB 1109 requires reductions in energy usage for lighting and is described in more detail above in Section 5.1 under Energy Conservation Management.

Executive Order S-1-07

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Executive Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

In 2009 CARB approved the proposed regulation to implement the LCFS. The standard was challenged in the courts, but has been in effect since 2011 and was re-approved by the CARB in 2015. The LCFS is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The LCFS is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet annually. Reformulated gasoline mixed with corn-derived ethanol and low-sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel. Compressed natural gas and liquefied natural gas also may be low-carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles, are also considered as low-carbon fuels.

Senate Bill 97

Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009 the Natural Resources Agency adopted amendments to the State CEQA guidelines that addresses GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporated GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010 and are summarized below:

- Climate Action Plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the GHG emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies, or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of GHG emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that “to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation.”
- OPR’s emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports must specifically consider a project's energy use and energy efficiency potential.

Assembly Bill 32

In 2006, the California State Legislature adopted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased in starting in 2012. Emission reductions shall include carbon sequestration projects that would remove carbon from the atmosphere and utilize best management practices that are technologically feasible and cost effective.

In 2007 CARB released the calculated Year 1990 GHG emissions of 431 MMTCO₂e. The 2020 target of 431 MMTCO₂e requires the reduction of 78 MMTCO₂e, or approximately 16 percent from the State’s projected 2020 business as usual emissions of 509 MMTCO₂e (CARB, 2014). Under AB 32, CARB was required to adopt regulations by January 1, 2011 to achieve reductions in GHGs to meet the 1990 cap by 2020. Early measures CARB took to lower GHG emissions included requiring operators of the largest industrial facilities that emit 25,000 metric tons of CO₂ in a calendar year to submit verification of GHG emissions by

December 1, 2010. The CARB Board also approved nine discrete early action measures that include regulations affecting landfills, motor vehicle fuels, refrigerants in cars, port operations and other sources, all of which became enforceable on or before January 1, 2010.

CARB's Scoping Plan that was adopted in 2009, proposes a variety of measures including: strengthening energy efficiency and building standards; targeted fees on water and energy use; a market-based cap-and-trade system; achieving a 33 percent renewable energy mix; and a fee regulation to fund the program. The 2014 update to the Scoping Plan identifies strategies moving beyond the 2020 targets to the year 2050.

The Cap and Trade Program established under the Scoping Plan sets a statewide limit on sources responsible for 85 percent of California's GHG emissions, and has established a market for long-term investment in energy efficiency and cleaner fuels since 2012.

Executive Order S-3-05

In 2005 the California Governor issued Executive Order S 3-05, GHG Emission, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels;
- 2020: Reduce greenhouse gas emissions to 1990 levels;
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

The Executive Order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs. The State achieved its first goal of reducing GHG emissions to 2000 levels by 2010.

Assembly Bill 1493

AB 1493 or the Pavley Bill sets tailpipe GHG emissions limits for passenger vehicles in California as well as fuel economy standards and is described in more detail above in Section 5.1 under Energy Conservation Management.

6.4 Regional – Southern California

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the Air Basin. To that end, as a regional agency, the SCAQMD works directly with SCAG, county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

South Coast Air Quality Management District

SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. The SCAQMD is also responsible for GHG emissions for projects where it is the lead agency. However, for other projects in the Air Basin where it is not the lead agency, it is limited to providing resources to other lead agencies in order to assist them in determining GHG emission thresholds and GHG

reduction measures. In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group, which is described below.

SCAQMD Working Group

In order to identify significance criteria under CEQA for all land use projects, SCAQMD initiated a Working Group, which provided detailed methodology for evaluating significance under CEQA. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions thresholds, which recommends a tiered approach that includes the following Tiers:

- Tier 1: Applicable CEQA Exemptions (e.g., SB 97, categorical and statutory exemptions).
- Tier 2: Consistency with a GHG Reduction Plan (an adopted plan by a local agency).
- Tier 3: Quantitative Screening Values. The following quantitative thresholds were proposed:
 - 3,000 MTCO₂e per year for all land use types; or
 - 3,500 MTCO₂e per year for residential;
 - 1,400 MTCO₂e per year for commercial;
 - 3,000 MTCO₂e per year for mixed-use; and
 - 10,000 MTCO₂e per year for industrial.
- Tier 4: Performance Standards. The following options were proposed as performance standards:
 - Option 1: Percent Emission Reduction Target (Provide an undefined percent reduction in GHG emissions over business-as-usual emissions).
 - Option 2: Early Implementation of Applicable AB32 Scoping Plan Measures (Require a set of AB32 Scoping Plan measures to be implemented).
 - Option 3: SCAQMD Efficiency Targets. The following targets were proposed:
 - Year 2020 Targets
 - 4.8 MTCO₂e per year per service population for project level threshold (land use employment only)
 - 6.6 MTCO₂e per year per service population for plan level threshold
 - Year 2035 Targets
 - 3.0 MTCO₂e per year per service population for project level threshold.
 - 4.1 MTCO₂e per year per service population for plan level threshold
- Tier 5: Mitigation Offsets (either alone or in combination with above tiers to achieve target threshold).

Southern California Association of Governments

The SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the federally designated Metropolitan Planning Organization (MPO) for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the Connect SoCal and 2019 FTIP addresses regional development and growth forecasts. Although the Connect SoCal and 2019 FTIP are primarily planning

documents for future transportation projects a key component of these plans are to integrate land use planning with transportation planning that promotes higher density infill development in close proximity to existing transit service. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Connect SoCal, 2019 FTIP, and AQMP are based on projections originating within the City and County General Plans.

6.5 Local – City of Meniffee

Local jurisdictions, such as the City of Meniffee, have the authority and responsibility to reduce GHG emissions through their police power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of GHG emissions resulting from its land use decisions. In accordance with CEQA requirements and the CEQA review process, the City assesses the global climate change potential of new development projects, requires mitigation of potentially significant global climate change impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

The applicable GHG plan for the proposed project is the *City of Meniffee General Plan Open Space and Conservation Element*, adopted 2013. The GHG-related goals and policies from the Open Space Conservation Element are shown below.

Goal OSC-10: An environmentally aware community that is responsive to changing climate conditions and actively seeks to reduce local greenhouse gas emissions.

Policies

- OCS-10.1: Align the city’s local GHG reduction targets to be consistent with the statewide GHG reduction target of AB 32.
- OCS-10.2: Align the city’s long-term GHG reduction goal consistent with the statewide GHG goal of Executive Order S-03-05.
- OCS-10.3: Participate in regional greenhouse gas emission reduction initiatives.
- OCS-10.4: Consider impacts to climate change as a factor in evaluating policies, strategies, and projects.

7.0 ATMOSPHERIC SETTING

7.1 South Coast Air Basin

The project site is located within western Riverside County, which is part of the South Coast Air Basin (Air Basin) that includes the non-desert portions of Riverside, San Bernardino, and Los Angeles Counties and all of Orange County. The Air Basin is located on a coastal plain with connecting broad valleys and low hills to the east. Regionally, the Air Basin is bounded by the Pacific Ocean to the southwest and high mountains to the east forming the inland perimeter.

7.2 Local Climate

The climate of western Riverside County, technically called an interior valley subclimate of the Southern California's Mediterranean-type climate, is characterized by hot dry summers, mild moist winters with infrequent rainfall, moderate afternoon breezes, and generally fair weather. Occasional periods of strong Santa Ana winds and winter storms interrupt the otherwise mild weather pattern. The clouds and fog that form along the area's coastline rarely extend as far inland as western Riverside County. When morning clouds and fog form, they typically burn off quickly after sunrise. The most important weather pattern from an air quality perspective is associated with the warm season airflow across the densely populated areas located west of the project site. This airflow brings polluted air into western Riverside County late in the afternoon. This transport pattern creates unhealthful air quality that may extend to the project site particularly during the summer months.

Winds are an important parameter in characterizing the air quality environment of a project site because they both determine the regional pattern of air pollution transport and control the rate of dispersion near a source. Daytime winds in western Riverside County are usually light breezes from off the coast as air moves regionally onshore from the cool Pacific Ocean to the warm Mojave Desert interior of Southern California. These winds allow for good local mixing, but as discussed above, these coastal winds carry significant amounts of industrial and automobile air pollutants from the densely urbanized western portion of the Air Basin into the interior valleys which become trapped by the mountains that border the eastern and northern edges of the Air Basin.

In the summer, strong temperature inversions may occur that limit the vertical depth through which air pollution can be dispersed. Air pollutants concentrate because they cannot rise through the inversion layer and disperse. These inversions are more common and persistent during the summer months. Over time, sunlight produces photochemical reactions within this inversion layer that creates ozone, a particularly harmful air pollutant. Occasionally, strong thermal convections occur which allows the air pollutants to rise high enough to pass over the mountains and ultimately dilute the smog cloud.

In the winter, light nocturnal winds result mainly from the drainage of cool air off of the mountains toward the valley floor while the air aloft over the valley remains warm. This forms a type of inversion known as a radiation inversion. Such winds are characterized by stagnation and poor local mixing and trap pollutants such as automobile exhaust near their source. While these inversions may lead to air pollution "hot spots" in heavily developed coastal areas of the Air Basin, there is not enough traffic in inland valleys to cause any winter air pollution problems. Despite light wind conditions, especially at night and in the early morning, winter is generally a period of good air quality in the project vicinity.

The temperature and precipitation levels for the Sun City Monitoring Station, which is the nearest weather station to the project site with historical data are shown below in Table E. Table E shows that July is typically the warmest month and January is typically the coolest month. Rainfall in the project area varies considerably in both time and space. Almost all the annual rainfall comes from the fringes of mid-latitude storms from late November to early April, with summers being almost completely dry.

Table E – Monthly Climate Data

Month	Average Maximum Temperature (°F)	Average Minimum Temperature (°F)	Average Total Precipitation (inches)
January	66.1	36.3	2.66
February	68.4	38.7	3.25
March	69.6	41.1	1.96
April	76.7	44.4	0.66
May	82.1	49.6	0.31
June	91.9	54.0	0.05
July	97.4	58.9	0.03
August	98.0	59.4	0.24
September	92.6	57.5	0.15
October	84.2	49.2	0.25
November	73.8	39.8	0.66
December	67.6	34.5	1.02
Annual	80.7	46.9	11.22

Source: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca8655>

6.3 Monitored Local Air Quality

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the Air Basin. Improvements in cleaner technology and strict regulations have reduced ozone levels since its peak in the mid-twentieth century. However, ozone levels have remained unacceptably high over the past decade despite significant reductions. This trend is due to the changes in climate and other weather conditions such as the increase in hot, stagnant days that can lead to the formation of ozone that we have experienced in recent years. (SCAQMD, 2022).

SCAQMD has divided the Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in Air Monitoring Area 24, Perris Valley. Since not all air monitoring stations measure all of the tracked pollutants, the data from the following two monitoring stations, listed in the order of proximity to the project site have been used; Winchester Monitoring Station (Winchester Station) and Lake Elsinore W Flint Street Monitoring Station (Lake Elsinore Station). It should be noted that there is a monitoring station in Perris that is slightly closer, however no monitoring data is provided for the year 2022 at this station so it was not used.

The Winchester Station is located approximately 8.8 miles southeast of the project site at 33700 Borel Road, Winchester and the Lake Elsinore Station is located approximately 11.2 miles west of the project site at 506 W Flint Street, Lake Elsinore. The monitoring data is presented in Table F and shows the most

recent three years of monitoring data available from CARB. Ozone and PM2.5 were measured at the Winchester Station and NO₂ and PM10 were measured at the Lake Elsinore Station.

Table F – Local Area Air Quality Monitoring Summary

Pollutant (Standard)	Year		
	2020	2021	2022
Ozone: ¹			
Maximum 1-Hour Concentration (ppm)	0.108	0.095	0.087
Days > CAAQS (0.09 ppm)	5	1	0
Maximum 8-Hour Concentration (ppm)	0.091	0.083	0.079
Days > NAAQS (0.070 ppm)	37	10	3
Days > CAAQs (0.070 ppm)	39	11	4
Nitrogen Dioxide: ²			
Maximum 1-Hour Concentration (ppb)	43.6	43.7	37.2
Days > NAAQS (100 ppb)	0	0	0
Days > CAAQS (180 ppb)	0	0	0
Inhalable Particulates (PM10): ²			
Maximum 24-Hour National Measurement (ug/m ³)	192.4	90.0	91.8
Days > NAAQS (150 ug/m ³)	1	0	0
Days > CAAQS (50 ug/m ³)	ND	ND	ND
Annual Arithmetic Mean (AAM) (ug/m ³)	23.7	22.4	20.3
Annual > NAAQS (50 ug/m ³)	No	No	No
Annual > CAAQS (20 ug/m ³)	Yes	Yes	Yes
Ultra-Fine Particulates (PM2.5): ¹			
Maximum 24-Hour National Measurement (ug/m ³)	37.1	26.9	20.3
Days > NAAQS (35 ug/m ³)	1	0	0
Annual Arithmetic Mean (AAM) (ug/m ³)	9.5	8.8	8.5
Annual > NAAQS and CAAQS (12 ug/m ³)	No	No	No

Notes: Exceedances are listed in **bold**. CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million; ppb = parts per billion; ND = no data available.

¹ Data obtained from the Winchester Station.

² Data obtained from the Lake Elsinore Station

Source: <http://www.arb.ca.gov/adam/>

Ozone

The State 1-hour concentration standard for ozone has been exceeded between 0 and 5 days each year over the past three years at the Winchester Station. The State 8-hour ozone standard has been exceeded between 4 and 39 days each year over the past three years at the Winchester Station. The Federal 8-hour ozone standard has been exceeded between 3 and 37 days each year over the past three years at the Winchester Station.

Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO₂, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of Southern California contribute to the ozone levels experienced at this monitoring station, with the more significant areas being those directly upwind.

Nitrogen Dioxide

The Lake Elsinore Station did not record an exceedance of either the Federal or State 1-hour NO₂ standards for the last three years.

Particulate Matter

No data is provided for the State 24-hour concentration standard at the Lake Elsinore Station. Over the past three years the Federal 24-hour standard for PM₁₀ has only been exceeded for one day in 2020 at the Lake Elsinore Station. The annual PM₁₀ concentration at the Lake Elsinore Station has exceeded the State standard for the past three years and has not exceeded the Federal standard for the past three years.

The Federal 24-hour concentration standard for PM_{2.5} has only been exceeded for one day in the year 2020 over the past three years at the Winchester Station. The annual PM_{2.5} concentration has not exceeded either the State or Federal standard for the past three years at the Winchester Station. Particulate levels in the area are due to natural sources, grading operations, and motor vehicles.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM₁₀ and PM_{2.5}). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM₁₀ and PM_{2.5}. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

7.4 Toxic Air Contaminant Levels in the Air Basin

In order to determine the Air Basin-wide risks associated with major airborne carcinogens, the SCAQMD conducted the Multiple Air Toxics Exposure Study (MATES) studies. According to the MATES V study (SCAQMD, 2021), the project site has an estimated cancer risk of 381 per million persons chance of cancer in the vicinity of the project site. In comparison, the average cancer risk for the Air Basin is 299 per million persons. The MATES V study that monitored air toxins between May 1, 2018 to April 30, 2019 found that cancer risk from air toxics has declined significantly in the Air Basin with a 40 percent decrease in cancer risk since the monitoring for the MATES IV study that occurred between July 1, 2012 and June 30, 2013 and an 84 percent decrease in cancer risk since the monitoring for the MATES II study that occurred between April 1, 1998 and March 31, 1999.

The MATES V study also analyzed impacts specific to the communities experiencing environmental injustices (EJ communities) that were evaluated using the Senate Bill 535 definition of disadvantaged communities, which found that between MATES IV and MATES V, the cancer risk from air toxics decreased by 57 percent in EJ communities overall, compared to a 53 percent reduction in non-EJ communities.

In order to provide a perspective of risk, it is often estimated that the incidence in cancer over a lifetime for the U.S. population ranges around 1 in 3, or a risk of about 300,000 per million persons. The MATES-III study referenced a Harvard Report on Cancer Prevention, which estimated that of cancers associated with known risk factors, about 30 percent were related to tobacco, about 30 percent were related to diet and obesity, and about 2 percent were associated with environmental pollution related exposures that includes hazardous air pollutants.

8.0 MODELING PARAMETERS AND ASSUMPTIONS

8.1 CalEEMod Model Input Parameters

The criteria air pollution and year 2030 GHG emissions impacts created by the proposed project have been analyzed through use of the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.19. CalEEMod is a computer model published by the California Air Pollution Control Officers Association (CAPCOA) for estimating air pollutant and GHG emissions. The CalEEMod program uses the EMFAC2021 computer program to calculate the emission rates specific for the South Coast Air Basin portion of Riverside County for employee, vendor and haul truck vehicle trips and the OFFROAD2007 and OFFROAD2011 computer programs to calculate emission rates for heavy equipment operations. EMFAC2021, OFFROAD2007 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour.

The project characteristics in the CalEEMod model were set to a project location of the South Coast Air Basin portion of Riverside County, utility companies of Southern California Edison and Southern California Gas (with 2029 forecast factors) and a project opening year of 2029 for the criteria pollutant emissions calculations (see Appendix A) and General Plan Buildout year of 2035 for the GHG emissions calculations (see Appendix B). Since there is existing single-family developments on the north and east sides of the project site and the proposed project meets the definition of “Suburb with Single-Family Homes” as defined in Table C-12 of the CalEEMod User Guide (CAPCOA, 2022), the land use setting in CalEEMod was set to Suburban.

Land Use Parameters

The proposed project would disturb up to 51.2 acres of the 55.4 acre project site and would consist of the development of 330 single-family detached homes that would include approximately 8.6 acres of open space area of which the southern portion of the project site would be designated as a City park and would include grass playfields, tot lots, sitting areas with possible shade structures, walkways and a parking lot. The proposed project would include the paving of approximately 12.4 acres of onsite roads and extension of Briggs Road along the eastern edge of the project site. The proposed project’s land use parameters that were entered into the CalEEMod model are shown in Table G.

Table G – CalEEMod Land Use Parameters

Proposed Land Use	Land Use Subtype in CalEEMod	Land Use Size ¹	Lot Acreage ²	Building ³ (square feet)	Landscaped Area (sq ft)
Single-Family Homes	Single Family Housing	330 DU	30.20	839,302	263,102
Open Space and Water Detention Basins	City Park	9 AC	8.60	400	74,923
Onsite Roads, Parking Areas and Briggs Road extension	Other Asphalt Surfaces	12 AC	12.40	--	108,029

Notes:

¹ DU = Dwelling unit; AC = Acre.

² Lot acreage calculated based on the total disturbed area of 51.2 acres.

³ Building square feet represent area where architectural coatings will be applied. Single-family homes square footage provided by project applicant and includes garages and porches. 400 square feet added to the City Park land use to account for any structures that may be incorporated into the City Park area.

⁴ Landscaped area based on a minimum of 20 percent of the total area landscaped, spread proportionally between land uses.

Construction Parameters

Construction of the proposed project is anticipated to start January 2025 and would be completed by end of 2029. Since the CalEEMod default construction schedule for the proposed project shows completion by mid 2030, the paving and architectural coatings phases that both have a default duration of 75 workdays, were moved so that both phases occur concurrently with the last 75 workdays of the Building Construction phase. In addition, construction of the proposed project would require the import of 343,790 cubic yards of dirt to the project site and according to the project applicant, the import of dirt would start as soon as possible. As such, the import of dirt was split proportionally between the Site Preparation and Grading phases.

The construction-related GHG emissions were based on a 30-year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The phases of construction activities that have been analyzed are detailed below and include: 1) Site Preparation, 2) Grading, 3) Building construction, 4) Paving, and 5) Application of architectural coatings.

CalEEMod provides the selection of “mitigation” to account for project conditions that would result in less emissions than a project without these conditions, however it should be noted that this “mitigation” may represent regulatory requirements. This includes the required to adherence to SCAQMD Rule 403, which requires that the Best Available Control Measures be utilized to reduce fugitive dust emissions and was modeled in CalEEMod under dust from material movement by selection of water all exposed areas three times per day.

Site Preparation

The site preparation phase would consist of removing any vegetation, tree stumps, and stones onsite prior to grading. The site preparation phase was modeled as starting in January 2025 and occurring over 40 workdays which is based on the CalEEMod default timing. During the site preparation phase it is anticipated that 91,677 cubic yards of dirt will be imported to the project site. The import of dirt would generate an average of 287 haul truck trips per day over the duration of the site preparation phase.

The site preparation activities would generate an average of 17.5 worker trips per day. In order to account for water truck emissions, two onsite truck trips per day with a one-mile length were added to the site preparation phase. The onsite equipment would consist of three rubber-tired dozers, and four crawler tractors, which replaced the CalEEMod default value of four of either tractors, loaders, or backhoes, in order to provide a more conservative analysis. In addition, in order to account for the movement of the imported dirt around the project site, two scrapers were added to the site preparation phase.

Grading

The grading phase was modeled as starting after completion of the site preparation phase and was modeled as occurring over 110 workdays, which is based on the CalEEMod default timing. During the grading phase it is anticipated that 252,113 cubic yards of dirt will be imported to the project site. The import of dirt would generate an average of 287 haul truck trips per day over the duration of the grading phase.

The onsite equipment would consist of two excavators, one grader, one rubber-tired dozer, two scrapers, and two crawler tractors, which replaced the CalEEMod default value of two of either tractors, loaders, or backhoes, in order to provide a more conservative analysis. The grading activities would generate 20

automobile trips per day for the workers. In order to account for water truck emissions, two onsite trucks trip per day with a one-mile length were added to the grading phase.

Building Construction

The building construction would occur after the completion of the grading phase and was modeled as occurring over 1,110 workdays (4 years and 3 months), which is based on the CalEEMod default timing. The building construction phase would generate an average of 58.7 worker trips and 17.4 vendor trips per day. The onsite equipment would consist of the simultaneous operation of one crane, three forklifts, one generator, one welder, and three of either tractors, loaders, or backhoes, which is based on the CalEEMod default equipment mix.

Paving

The paving phase would consist of paving the onsite roads and parking areas, sidewalks and hardscapes and extension of Briggs Road along the eastern edge of the project site. The paving phase was modeled as occurring concurrently with the last 75 workdays of the building construction phase, which is based on the CalEEMod default duration of the paving phase. The paving phase would generate 15 worker trips per day. The onsite equipment would consist of the simultaneous operation of two pavers, two paving equipment, and two rollers, which is based on the CalEEMod default equipment mix.

Architectural Coating

The application of architectural coatings was modeled as occurring concurrently with the paving phase and concurrently with the last 75 workdays of the building construction phase, which is based on the CalEEMod default duration of the architectural coating phase. The architectural coating phase was modeled based on covering 1,699,587 square feet of residential interior area, 566,529 square feet of residential exterior area, 600 square feet of non-residential interior area, 200 square feet of non-residential exterior area, and 32,409 square feet of parking area. The architectural coating phase would generate an average of 11.7 worker trips per day. The onsite equipment would consist of one air compressor, which is based on the CalEEMod default equipment mix.

Operational Emissions Modeling

The operations-related criteria air pollutant emissions and GHG emissions created by the proposed project have been analyzed through use of the CalEEMod model. The proposed project was analyzed in the CalEEMod model based on the land use parameters provided above and the parameters entered for each operational source is described below.

Mobile Sources

Mobile sources include emissions the additional vehicle miles generated from the proposed project. The 9.43 daily trips per home rate provided in the *Salt Creek (Tentative Tract Map No. 38625) Traffic Study Scoping Agreement* (Traffic Analysis), prepared by Urban Crossroads, June 8, 2023, matches the CalEEMod default weekday trip generation rate for the proposed single-family homes of 9.43 daily trips per home. Since the Traffic Study did not provide Saturday or Sunday daily trip rates for the proposed project, the default CalEEMod daily trip generation rates of: 9.54 per home on Saturdays; and 8.55 per home on Sundays were utilized.

According to Final Report Residential Trip Generation: Ground Counts (Virginia Transportation Research Council, 2003, found at: http://www.virginiadot.org/vtrc/main/online_reports/pdf/03-r18.pdf), which

analyzed the generation of trips for residential homes found that the combined category of Trucks, Visitors and Miscellaneous generated 0.5 vehicle trips per dwelling unit. Since this category is based on three sub-categories (i.e., trucks, visitors and miscellaneous), it was assumed that each of these subcategories generated similar trips or 0.17 vehicle trips per use, which equates to 1.8 percent of the 9.43 daily trips per home from the Traffic Analysis. As such, the vehicle mix in the CalEEMod model for the proposed single-family homes were adjusted so that all truck trips equate to 1.8 percent of the daily trips. No other changes were made to the CalEEMod default mobile source parameters.

Since the proposed project consists of the development of small lot single-family homes, the mobile source emissions analysis included the CalEEMod mitigation of increased density of 10.93 homes per acre that excludes the paved and open space areas of the project site, per CalEEMod model requirements.

Area Sources

Area sources include emissions from consumer products, landscape equipment, hearths and architectural coatings. The area source emissions were based on the on-going use of the proposed project in the CalEEMod model. According to the project applicant, no woodstoves or fireplaces will be installed into any home in the proposed project. As such, the woodstoves and fireplaces were set to zero in CalEEMod. No other changes were made to the default area source parameters in the CalEEMod model.

Energy Usage

Energy usage includes emissions from electricity and natural gas used onsite. The energy usage was based on the ongoing use of the proposed project in the CalEEMod Model. No changes were made to the default energy usage parameters in the CalEEMod model.

In order to account for the new 2022 Title 24, Part 6 building energy efficiency standards, that went into effect January 1, 2023, the analysis included the CalEEMod mitigation of exceed the 2019 Title 24 standards by 13 percent, since the 2022 building standards result in new homes using about 13 percent less energy than homes built with the 2019 building standards³. In addition, the CalEEMod mitigation of Require All Electric Development was selected, since the project applicant has committed to only using electric power in the proposed homes and no natural gas lines will be run to the project site as part of the proposed project (see Project Design Feature 1).

Solid Waste

Waste includes the GHG emissions associated with the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. The analysis was based on the default CalEEMod waste generation rate of 63 tons of solid waste per year from the proposed project. No changes were made to the default solid waste parameters or mitigation measures in the CalEEMod model.

Water and Wastewater

Water includes the water used for the interior of the buildings as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. The analysis was based on the default CalEEMod water usage rate of 6,629,825 gallons per year of indoor water use and

3 Obtained from: <https://title24stakeholders.com/2022-cycle-impacts/#electricity>

14,245,549 gallons per year of outdoor water use. No changes were made to the default water and wastewater parameters in the CalEEMod model.

The CalEEMod mitigation of the use of low flow fixtures were selected to account for the implementation of the 2022 CCR Title 24 Part 11 (CalGreen) requirements. A 30 percent reduction was selected for the toilets, showerheads, and bathroom faucet, where a default percent reduction is not provided, in order to be consistent with CCR Title 20, Sections 1601-1608 that require all water fixtures to be low flow and provide an average water use reduction of 30 percent.

8.2 Energy Use Calculations

The proposed project is anticipated to consume energy during both construction and operation of the proposed project and the parameters utilized to calculate energy use from construction and operation of the proposed project are detailed separately below.

Construction-Related Energy Use

Construction of the proposed project is anticipated to use energy in the forms of petroleum fuel for both off-road equipment as well as from the transport of workers and materials to and from the project site and the calculations for each source are described below.

Off-Road Construction Equipment

The off-road construction equipment fuel usage was calculated through use of the CalEEMod model's default off-road equipment assumptions detailed above in Section 8.1. For each piece of off-road equipment, the fuel usage was calculated through use of the *2017 Off-road Diesel Emission Factors* spreadsheet, prepared by CARB (<https://ww3.arb.ca.gov/msei/ordiesel.htm>). The Spreadsheet provides the following formula to calculate fuel usage from off-road equipment:

$$\text{Fuel Used} = \text{Load Factor} \times \text{Horsepower} \times \text{Total Operational Hours} \times \text{BSFC} / \text{Unit Conversion}$$

Where:

Load Factor - Obtained from CalEEMod default values

Horsepower – Obtained from CalEEMod default values

Total Operational Hours – Calculated by multiplying CalEEMod default daily hours by CalEEMod default number of working days for each phase of construction

BSFC – Brake Specific Fuel Consumption (pounds per horsepower-hour) – If less than 100 Horsepower = 0.408, if greater than 100 Horsepower = 0.367

Unit Conversion – Converts pounds to gallons = 7.109

Table H shows the off-road construction equipment fuel calculations based on the above formula. Table H shows that the off-road equipment utilized during construction of the proposed project would consume 180,252 gallons of diesel fuel.

Table H – Off-Road Equipment and Fuel Consumption from Construction of the Proposed Project

Equipment Type	Equipment Quantity	Horse-power	Load Factor	Operating Hours per Day	Total Operational Hours ¹	Fuel Used (gallons)
Site Preparation						
Rubber Tired Dozers	3	367	0.40	8	960	7,275
Crawler Tractors	4	87	0.43	8	1,280	2,748
Scrapers	2	423	0.48	8	640	6,708
Grading						
Excavators	2	36	0.38	8	1,760	1,382
Grader	1	148	0.41	8	880	2,757
Crawler Tractors	2	84	0.37	8	1,760	3,139
Rubber Tired Dozer	1	367	0.4	8	880	6,669
Scrapers	2	423	0.48	8	1,760	18,448
Building Construction						
Crane	1	367	0.29	7	7,770	42,692
Forklifts	3	82	0.20	8	26,640	25,074
Generator Set	1	14	0.74	8	8,880	5,280
Tractors/Loaders/Backhoes	3	84	0.37	7	23,310	41,579
Welder	1	46	0.45	8	8,880	10,550
Paving						
Pavers	2	81	0.42	8	1,200	2,343
Paving Equipment	2	89	0.36	8	1,200	2,207
Rollers	2	36	0.38	8	1,200	942
Architectural Coating						
Air Compressor	1	37	0.48	6	450	459
Total Off-Road Equipment Diesel Fuel Used during Construction (gallons)						180,252

Notes:

¹ Based on: 40 days for Site Preparation, 110 days for Grading; 1,110 days for Building Construction; 75 days for Paving; and 75 days for Architectural Coating.

Source: CalEEMod Version 2022.1 (see Appendix A); CARB, 2017.

On-Road Construction-Related Vehicle Trips

The on-road construction-related vehicle trips fuel usage was calculated through use of the construction vehicle trip assumptions from the CalEEMod model run as detailed above in Section 8.1. The calculated total construction miles was then divided by the fleet average for all of Southern California miles per gallon rates for the year 2025 calculated through use of the EMFAC2017 model (<https://www.arb.ca.gov/emfac/2017/>) and the EMFAC2017 model printouts are shown in Appendix C. It should be noted that the EMFAC2021 model was not utilized, since it does not provide the information required to calculate the fleet average miles per gallon rates.

The worker trips were based on the entire fleet average miles per gallon rate for gasoline powered vehicles and the vendor trips were based on the Heavy-Heavy Duty Truck (HHDT), Medium Duty Vehicle (MDV), and Medium Heavy-Duty Vehicle (MHDV) fleet average miles per gallon rate for diesel-powered vehicles. Table I shows the on-road construction vehicle trips modeled in CalEEMod and the fuel usage calculations.

Table I – On-Road Vehicle Trips and Fuel Consumption from Construction of the Proposed Project

Vehicle Trip Types / Fuel Type	Daily Trips	Trip Length (miles)	Total Miles per Day	Total Miles per Phase¹	Fleet Average Miles per Gallon²	Fuel Used (gallons)
Site Preparation						
Worker (Gasoline)	17.5	18.5	324	12,950	28.3	457
Haul (Diesel)	287	20	5,740	229,600	8.9	25,693
Water Trucks (Diesel)	2	1	2	80	8.9	9
Grading						
Worker (Gasoline)	20	18.5	370	40,700	28.3	1,438
Haul (Diesel)	287	20	5,740	631,400	8.9	70,656
Water Trucks (Diesel)	2	1	2	220	8.9	25
Building Construction						
Worker (Gasoline)	58.7	18.5	1,086	1,205,405	28.3	42,576
Vendor (Diesel)	17.4	10.2	177	197,003	8.9	22,045
Paving						
Worker (Gasoline)	15	18.5	278	20,813	28.3	735
Architectural Coatings						
Worker (Gasoline)	11.7	18.5	216	16,234	28.3	573
Total Gasoline Fuel Used from On-Road Construction Vehicles (gallons)						45,780
Total Diesel Fuel Used from On-Road Construction Vehicles (gallons)						118,429

Notes:

¹ Based on: 40 days for Site Preparation, 110 days for Grading; 1,110 days for Building Construction; 75 days for Paving; and 75 days for Painting.

² From EMFAC 2017 model (see Appendix C). Worker Trips based on entire fleet of gasoline vehicles and Vendor Trips based on only truck fleet of diesel vehicles.

Source: CalEEMod Version 2022.1; CARB, 2018.

Table I shows that the on-road construction-related vehicle trips would consume 45,780 gallons of gasoline and 118,429 gallons of diesel fuel. As detailed above, Table H shows that the off-road construction equipment would consume 180,252 gallons of diesel fuel. This would result in the total consumption of 45,780 gallons of gasoline and 298,681 gallons of diesel fuel from construction of the proposed project.

Operations-Related Energy Use

The operation of the proposed project is anticipated to use energy in the forms of petroleum fuel and electricity and the calculations for each source are described below. Per PDF-1, the project applicant has committed to an All-Electric Development, as such there would be no natural gas use from operation of the proposed project.

Operational Petroleum Fuel

The on-road operations-related vehicle trips fuel usage was calculated through use of the total annual vehicle miles traveled assumptions from the CalEEMod model run as detailed above in Section 8.1, which found that operation of the proposed project would generate 8,831,543 vehicle miles traveled per year. The calculated total operational miles were then divided by the Southern California fleet average rate of 31.3 miles per gallon, which was calculated through use of the EMFAC2017 model and based on the project opening year of 2029. The EMFAC2017 model printouts are shown in Appendix C. Based on the

above calculation methodology, operational vehicle trips generated from the proposed project would consume 282,285 gallons of gasoline per year.

Operational Electricity Use

The operations-related electricity usage was calculated in the CalEEMod model run that is detailed above in Section 8.1 that found operation of the proposed project will use 3,039,213 kilowatt hours (kWh) per year with implementation of Title 24 Part 6 requirements that require the implementation of building energy efficiency standards that include the installation of photovoltaic systems on the rooftops of the proposed homes.

8.3 Toxic Air Contaminant Emissions Modeling

The dispersion modeling utilized for analyzing the TAC emissions in this analysis has been based on the recommended methodology described in *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel idling Emissions for CEQA Air Quality Analysis* (SCAQMD HRA Guidance), prepared by SCAQMD, 2003, *Air Toxics Hot Spots Program Risk Assessment Guidelines* (OEHHA Guidelines), prepared by Office of Environmental Health Hazard, February 2015, and *Risk Assessment Procedures for Rules 1401, 1401.1 and 212* (SCAQMD Risk Assessment Procedures), prepared by SCAQMD, September 1, 2017. Important issues that affect the dispersion modeling include the following: 1) Model Selection, 2) Source Treatment, 3) Meteorological Data, and 4) Receptor Grid. Each of these issues is addressed below.

Model Selection

The Lakes AERMOD View Version 11.2.0 using the latest version of the AERMOD model (22112) was used for all dispersion modeling. Key dispersion modeling options selected included the regulatory default options and urban modeling option for Riverside County with a population of 2,189,641. Flagpole receptor height was set to 0 meters, which is based on SCAQMD recommended modeling parameters. AERMAP model (16216), the terrain pre-processor for AERMOD, was run with a USGS 7.5 minute map of Romoland that covered the project site and the areas to the west of the project site and a USGS 7.5 minute map of Winchester, that covered the area east of the project site. The averaging time options of 1-hour and Period were selected in all AERMOD model runs.

Meteorological Data

Meteorological data from the Perris Monitoring Station was selected for this modeling application. The SCAQMD's meteorological data is provided at: <https://www.aqmd.gov/home/air-quality/meteorological-data/data-for-aermod>. Five full years of meteorological data were collected at the Perris Monitoring Station by the SCAQMD that included years 2010, 2011, 2014, 2015 and 2016. The SCAQMD processed the data for input to the model. An elevation of 442 meters was utilized for the Perris Station per SCAQMD guidance.

Receptor Grid

The nearest sensitive receptors to the project site are residents at the single-family homes on the west side of the project site, located as near as 12 feet west of the project site. There are also single-family homes as near as 120 feet north of the project site and as near as 1,000 feet south of the project site. The nearest K-12 school is Ethan Chase Middle School that is located as near as 1,460 feet north of the project site. Discrete receptors were placed at 12 representative nearby sensitive receptors. Figure 3 shows the locations of the sources and receptors modeled in the AERMOD model for TAC emissions.

DPM Emissions Assumptions

The Age Sensitivity Factors (ASF) that are defined in the OEHHA Guidance (OEHHA 2015) have been utilized in this analysis. The ASF requirements, utilize separate emission factors over a person's life segmented into three distinct periods with the first period starting at the third trimester of a pregnancy to 2 years of age, the second period is from 2 to 16 years, and the third if from 16 to 70 years old.

Since the construction emissions would occur over a 4.8 year period from January 2025 to October 2029, each year was analyzed separately, with year 2025 representing from third trimester to 9 months, year 2026 represented 9 months to 1.7 years, year 2027 represented 1.7 years to 2.7 years, year 2028 represented 2.7 years to 3.7 years of age, and year 2029 represented 3.7 to 4.4 years of age. For each year the daily breathing rates and associated cancer risks were adjusted to match the above age levels. The use of the above age breakdowns represents a worst-case assumption that a woman who is in her third trimester is living in one of the nearby homes at the start of construction and the newborn child would remain at the home through the duration of construction. Construction activities have been modeled as occurring from 7 a.m. to 4 p.m. every day.

Off-Road Construction Equipment DPM Emissions

TAC emissions from construction activities would be primarily from DPM emissions associated with the onsite operation of off-road diesel equipment. The off-road equipment exhaust emissions that would be created from construction of the proposed project has been calculated by the CalEEMod Model, based on the parameters detailed above in Section 8.1. Table J shows the average daily PM2.5 exhaust rates for each year of construction that was calculated in the CalEEMod model provided in Appendix A.

Table J – Off-Road Equipment PM2.5 Exhaust Emissions from CalEEMod

Scenario	Average Daily PM2.5 Exhaust Emissions (pounds/day)				
	2025	2026	2027	2028	2029
Unmitigated	0.77	0.25	0.22	0.20	0.20
Mitigated	0.10	0.07	0.07	0.06	0.07

Source: CalEEMod Version 2022.1

The off-road construction equipment was modeled in AERMOD as a point source, located in the middle of the project site with a 13-foot height, a 0.1-meter diameter, a velocity of 50 meters per second, and a temperature of 366°K. The emission rates for each of three point sources are based on a 9-hour workday and are shown in Table K. The placement of the off-road equipment point sources in the AERMOD model is shown in Figure 1.

Table K – Off-Road Equipment DPM Emission Rates Entered into AERMOD

Source ID	Scenario	DPM Emissions Rates (grams/second)				
		2025	2026	2027	2028	2029
EQUIP	Unmitigated	1.08E-02	3.50E-03	3.08E-03	2.80E-03	2.80E-03
	Mitigated	1.40E-03	9.80E-03	9.80E-04	8.40E-04	1.12E-03

Source: CalEEMod Version 2022.1

Construction-Related Truck Running Emissions

The emission factors used for the roadway line volume sources were derived from the CARB EMFAC2021 Version 1.0.2. The parameters entered into the EMFAC2021 model included the South Coast Air Basin portion of Riverside County, for calendar years 2025, 2026, 2027, 2028 and 2029, a vehicle category of Truck 2, model year of aggregated, speeds of 10 miles per hour for the onsite road and 45 miles per hour for the offsite roads, temperature of 57 degrees Fahrenheit, humidity of 50 percent, and set for diesel fuel. The EMFAC2021 version 1.0.2 model calculated running emission rates are shown in Table L and the calculated truck idling emissions rates are shown in Table N and the EMFAC2021 printouts are provided in Appendix D.

Table L – EMFAC2021 Diesel Truck Running PM2.5 Emission Rates

Vehicle Class	Speed (mph)	EMFAC2021 PM2.5 Running Emissions Rates (grams/mile)				
		2025	2026	2027	2028	2029
Truck 2 ⁽¹⁾	10	0.0137	0.0126	0.0117	0.0109	0.0103
	45	0.0109	0.0106	0.0103	0.0102	0.0100

Notes:

¹ Truck 2 Vehicle Class covers all trucks greater than 14,000 pounds.

Source: EMFAC2021 version 1.0.2 (see Appendix D).

The offsite construction-related truck trips has been modeled with one third of the trips traveling from the north on Briggs Road, one third of the trips traveling from the west on Simpson Road and one third traveling from the east on Simpson Road. The onsite construction-related truck trips have been modeled as traveling from the mid point on the east side (Briggs Road) to the middle of the project site to the mid point on the north side (Simpson Road). The CalEEMod model calculated the truck trips that would be generated from the proposed project, which found that the site preparation and grading phases would generate 287 truck trips per day and the building construction phase would generate an average of 17.4 truck trips per day. When averaged over a 365 day year, this would result in an average of 123.2 daily truck trips in the year 2025, 12.4 daily truck trips in the years 2026, 2027 and 2028, and 10.4 daily truck trips in the year 2029.

The truck travel emissions were modeled in the AERMOD model by using line volume sources. The line volume sources were modeled with a plume height of 6 feet and plume width of 12 feet for the onsite path and a 34-foot width on the offsite roads. The road source emissions rates entered into the AERMOD model are shown in Table M. The road source emissions were determined by calculating the time it takes for each truck to cross the road length and then multiplying that amount of time by the daily truck operations and dividing it by 9 hours in order to determine the percent of daily running time. The daily running time was then multiplied by the EMFAC2021 emissions rates that are detailed above and were converted to grams per second. The placement of the truck travel line volume sources in the AERMOD model is shown in Figure 3.

Table M – Construction-Related Truck Travel Emissions Rates used in the AERMOD Model

Source ID	Road	Length of Road (Meters)	DPM Emission Rates (grams/second)				
			2025	2026	2027	2028	2029
RDBRIG	Briggs Road	1,061	9.08E-06	8.89E-07	8.70E-07	8.54E-07	7.02E-07
RDSIMPE	Simpson Rd East	850	7.27E-06	7.13E-07	6.97E-07	6.84E-07	5.63E-07
RDSIMPW	Simpson Rd West	852	7.29E-06	7.14E-07	6.98E-07	6.86E-07	5.64E-07
RDON	Onsite	501	8.13E-06	7.51E-07	6.95E-07	6.50E-07	5.11E-07

Notes:

¹ A daily truck trip represent either entering or leaving project site. A delivery to the project site would generate two trips.

Source: EMFAC2021

Construction-Related Truck Idling Emissions

The emissions factors used for the truck idling point source are based on the EMFAC2021 Idling Emission Rates shown in Table N and the EMFAC2021 input parameter have been described above and the EMFAC2021 printouts are provided in Appendix D.

Table N – EMFAC2021 Diesel Truck Idling PM2.5 Emission Rates

Vehicle Class	EMFAC2021 PM2.5 Idling Emissions Rates (grams/hour)				
	2025	2026	2027	2028	2029
Truck 2	0.0174	0.0159	0.0146	0.0137	0.0129

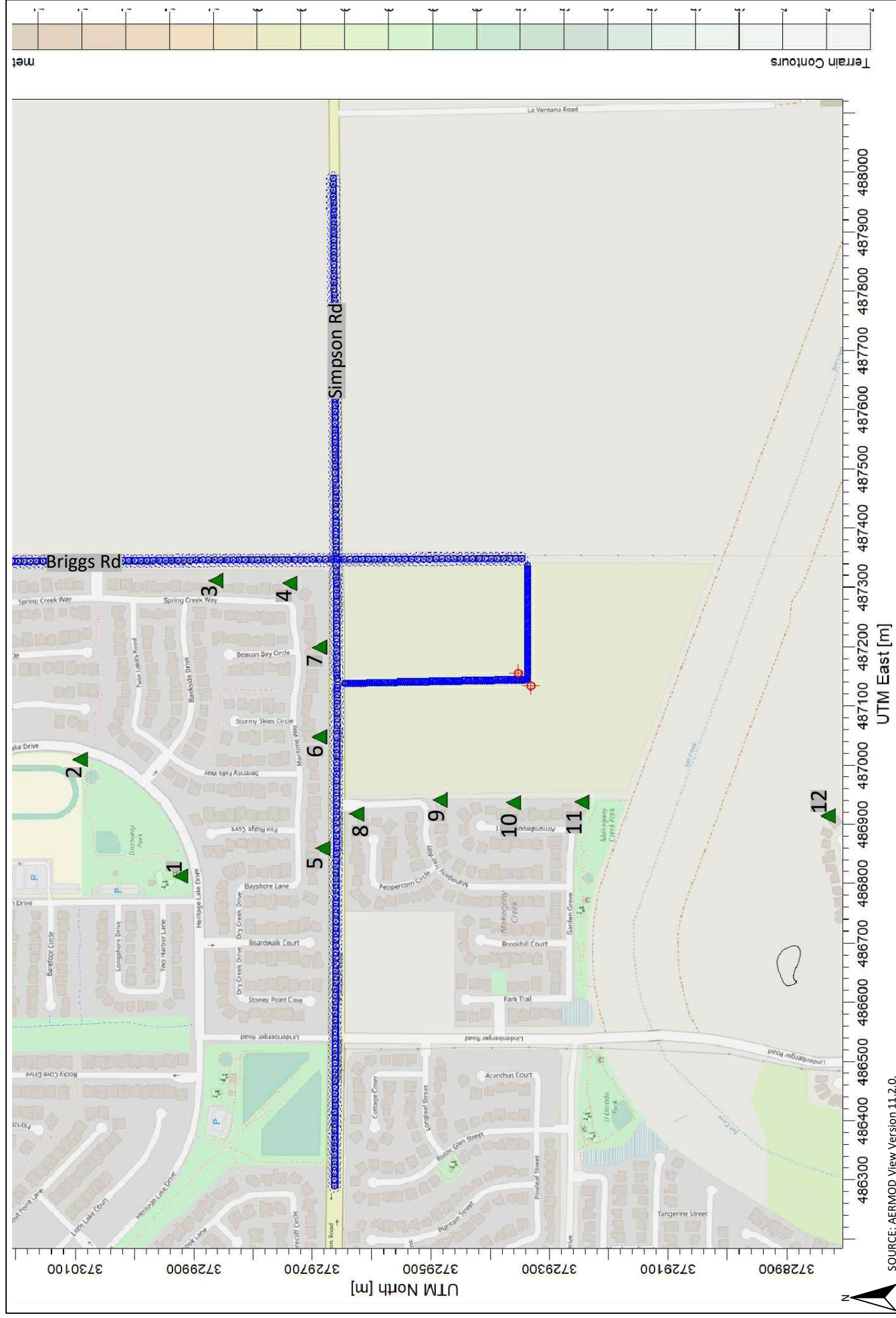
Source: EMFAC2021 version 1.0.2 (see Appendix D).

The construction diesel truck idling was modeled as a point source located approximately in the middle of the project site. The analysis was based on each truck delivery idling on the project site for 10 minutes (5 minutes per trip). The 5-minute period is based on Section 2485 of the California Code of Regulations that limits commercial truck idling to 5 minutes at any location. The idling point source was modeled in the AERMOD model with a 12-foot height, a 0.1-meter diameter, a velocity of 50 meters per second, and a temperature of 366°K. The idling DPM emission rates used in the AERMOD model for each year of construction analyzed are shown in Table O and are based on a 9-hour workday. The placement of the idling point source in the AERMOD model is shown in Figure 3.

Table O – Construction-Related Truck Idling Emissions Rates Used in the AERMOD Model

Source ID	Description	DPM Emission Rates (grams/second)				
		2025	2026	2027	2028	2029
IDLE	Construction-Related Truck Idling	2.75E-06	2.53E-07	2.33E-07	2.18E-07	1.71E-07

Source: EMFAC2021 version 1.0.2; CalEEMod version 2022.1



AERMOD Model Construction Sources and Receptors Placement

9.0 THRESHOLDS OF SIGNIFICANCE

9.1 Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominant pollution generators in the Air Basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table P.

Table P – SCAQMD Regional Criteria Pollutant Emission Thresholds of Significance

	Pollutant Emissions (pounds/day)						
	VOC	NOx	CO	SOx	PM10	PM2.5	Lead
Construction	75	100	550	150	150	55	3
Operation	55	55	550	150	150	55	3

Source: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>

9.2 Local Air Quality

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. SCAQMD has also provided *Final Localized Significance Threshold Methodology* (LST Methodology), July 2008, which details the methodology to analyze local air emission impacts. The LST Methodology found that the primary emissions of concern are NO₂, CO, PM10, and PM2.5.

The LST Methodology provides Look-Up Tables with different thresholds based on the location and size of the project site and distance to the nearest sensitive receptors. As detailed above in Section 7.3, the project site is located in Air Monitoring Area 24, Perris Valley.

The Look-Up Tables include site acreage sizes of 1-acre, 2-acres and 5-acres. The *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds*, prepared by SCAQMD, 2015, provides guidance on how to determine the appropriate site acreage size to utilize for a project. The Fact Sheet details the site acreage should be based on the maximum number of acres disturbed on the peak day of construction that is calculated on the construction equipment list utilized in the CalEEMod model, where crawler tractors, graders, and rubber-tired dozers are all assumed to disturb 0.5-acre in an 8-hour day and scrapers are assumed to disturb 1.0-acre in an 8-hour day. It should be noted that the methodology in the Fact Sheet was developed from the CalEEMod User Guide Appendix A, page 9, where the same acres disturbed per equipment type is detailed and is utilized in the CalEEMod model in order to determine the acres per day disturbed during site preparation and grading phases.

Table Q lists all of the construction equipment modeled in CalEEMod and utilizes the methodology in the Fact Sheet to calculate the acres disturbed per day. As shown in Table Q, the maximum disturbed per day would occur during the site preparation phase when 5.5-acres would be disturbed. In order to provide a conservative analysis, the 5-acre project site shown in the Look-Up Tables has been utilized in this analysis.

Table Q – Construction Equipment Modeled in CalEEMod and Acres Disturbed per Day

Construction Activity	Equipment Type	Equipment Quantity	Acres Disturbed per piece of Equipment per Day ¹	Operating Hours per Day	Acres Disturbed per Day
Site Preparation	Rubber Tired Dozers	3	0.5	8	1.5
	Crawler Tractors	4	0.5	8	2.0
	Scrapers	2	1.0	8	2.0
	Total Acres Disturbed per Day During Site Preparation				5.5
Grading	Graders	2	0.5	8	0.5
	Excavators	1	0	8	0
	Rubber Tired Dozers	1	0.5	8	0.5
	Scrapers	2	1.0	8	2.0
	Crawler Tractors	2	0.5	8	1.0
	Total Acres Disturbed per Day During Grading				4.0
Building Construction	Cranes	1	0	7	0
	Forklifts	3	0	8	0
	Generator Sets	1	0	8	0
	Tractors/Loaders/Backhoes	3	0	7	0
	Welders	1	0	8	0
	Total Acres Disturbed per Day During Building Construction				0
Paving	Pavers	2	0	8	0
	Paving Equipment	2	0	8	0
	Rollers	2	0	8	0
	Total Acres Disturbed per Day During Paving				0
Architectural Coating	Air Compressor	1	0	6	0
	Total Acres Disturbed per Day During Architectural Coating				0
Maximum Acres Disturbed during All Construction Activities					5.5

Notes:

¹ Based on the Fact Sheet for Applying CalEEMod to Localized Significance Thresholds where crawler tractors, graders, and rubber-tired dozers disturb 0.5-acre in an 8-hour day and scrapers disturb 1.0-acre in an 8-hour day. All other equipment disturbs 0 acres per 8-hour day.

Source: CalEEMod Version 2022.1; SCAQMD, 2015.

The nearest sensitive receptors to the project site are the residents at the single-family homes on the west side of the project site, located as near as 12 feet (4 meters) west of the project site. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. Table R below shows the LSTs for NO₂, PM₁₀ and PM_{2.5} for both construction and operational activities.

Table R – SCAQMD Local Air Quality Thresholds of Significance

Activity	Allowable Emissions (pounds/day) ¹			
	NOx	CO	PM10	PM2.5
Construction	270	1,577	13	8
Operation	270	1,577	4	2

Notes:

¹ The nearest sensitive receptors to the project site are single-family homes located as near as 12 feet (4 meters) west of the project site. According to SCAQMD methodology, all receptors closer than 25 meters are based on the 25-meter threshold.

Source: Calculated from SCAQMD's Mass Rate Look-up Tables for five acres in Air Monitoring Area 24, Perris Valley.

9.3 Toxic Air Contaminants

According to the SCAQMD CEQA Handbook, any project that has the potential to expose the public to toxic air contaminants in excess of the following thresholds would be considered to have a significant air quality impact:

- If the Maximum Incremental Cancer Risk is 10 in one million or greater; or
- Toxic air contaminants from the proposed project would result in a Hazard Index increase of 1 or greater.

In order to determine if the proposed project may have a significant impact related to TACs, the *Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*, (Diesel Analysis) prepared by SCAQMD, August 2003, recommends that if the proposed project is anticipated to create TACs through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the source of the TAC and the toxicity of the HAP should be analyzed through a comprehensive facility-wide health risk assessment (HRA).

9.4 Odor Impacts

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

“A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.”

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

9.5 Energy Conservation

The 2022 CEQA California Environmental Quality Act Statutes & Guidelines (2022 CEQA Guidelines) include an Energy Section that analyzes the proposed project's energy consumption in order to avoid or reduce

inefficient, wasteful or unnecessary consumption of energy. Appendix F of the 2022 CEQA Statute and Guidelines, states the following:

The goal of conserving energy implies the wise and efficient use of energy. The means of achieving this goal include:

- (1) Decreasing overall per capita energy consumption,
- (2) Decreasing reliance on fossil fuels such as coal, natural gas and oil, and
- (3) Increasing reliance on renewable energy sources.

Since the Energy Section was recently added, no state or local agencies have adopted specific criteria or thresholds to be utilized in an energy impact analysis. However, Appendix F, Subsection II.C of the 2022 CEQA Guidelines provides the following criteria for determining significance.

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

If the proposed project creates inefficient, wasteful or unnecessary consumption of energy during construction or operation activities or conflicts with a state or local plan for renewable energy or energy efficiency, then the proposed project would create a significant energy impact.

9.6 Greenhouse Gas Emissions

The *Menifee General Plan Draft Environmental Impact Report* (General Plan EIR), adopted September 2013, utilized the SCAQMD Working Group Thresholds (see Section 6.4, above) for the determination of significance of GHG emissions from implementation of the General Plan. It should be noted that SCAQMD's Working Group's thresholds were prepared prior to the issuance of Executive Order B-30-15 on April 29, 2015 that provided a reduction goal of 40 percent below 1990 levels by 2030. This target was codified into statute through passage of AB 197 and SB 32 in September 2016. However, the California Supreme Court's ruling on *Cleveland National Forest Foundation v. San Diego Association of Governments* (Cleveland v. SANDAG), Filed July 13, 2017 stated:

SANDAG did not abuse its discretion in declining to adopt the 2050 goal as a measure of significance in light of the fact that the Executive Order does not specify any plan or implementation measures to achieve its goal. In its response to comments, the EIR said: "It is uncertain what role regional land use and transportation strategies can or should play in achieving the EO's 2050 emissions reduction target. A recent California Energy Commission report concludes, however, that the primary strategies to achieve this target should be major

‘decarbonization’ of electricity supplies and fuels, and major improvements in energy efficiency [citation].

Although, the above court case was referencing California’s GHG emission targets for the year 2050, at this time it is also unclear what role land use strategies can or should play in achieving the AB 197 and SB 32 reduction goal of 40 percent below 1990 levels by 2030. As such this analysis has relied on the SCAQMD Working Group’s recommended thresholds, which were utilized as the applicable thresholds in the General Plan EIR.

As shown above in Section 6.2, the Working Group thresholds includes four tiers of thresholds that may be utilized to determine if a project would create a significant cumulative GHG impact. The General Plan EIR utilized the Tier 4 Option #3 Efficiency Target for analyzing general plans of 4.1 MTCO₂e per year per service population by the year 2035. In order to be consistent with the methodology utilized in the General Plan EIR, the SCAQMD Working Group’s Tier 4 Option #3 project level threshold was utilized in this analysis of 3.0 MTCO₂e per year per service population for the year 2035. It should be noted that this is the project level threshold, which is more restrictive than the plan level threshold utilized in the General Plan EIR.

The GHG emissions analysis for both construction and operation of the proposed project can be found below in Sections 10.8 and 10.9.

10.0 IMPACT ANALYSIS

10.1 CEQA Thresholds of Significance

Consistent with CEQA and the State CEQA Guidelines, a significant impact related to air quality, energy, and GHG emissions would occur if the proposed project is determined to:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations;
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people;
- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation;
- Conflict with or obstruct a state or local plan for renewable energy;
- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

10.2 Air Quality Compliance

The proposed project would not conflict with or obstruct implementation of the SCAQMD Air Quality Management Plan (AQMP). The following section discusses the proposed project's consistency with the SCAQMD AQMP.

SCAQMD Air Quality Management Plan

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and regional plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD AQMP. Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD CEQA Handbook states that "New or amended GP Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP." Strict consistency with all aspects of the plan is usually not required. A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

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

Both of these criteria are evaluated in the following sections.

Criterion 1 - Increase in the Frequency or Severity of Violations?

Based on the air quality modeling analysis contained in this report, short-term regional construction air emissions would not result in significant impacts based on SCAQMD regional thresholds of significance discussed above in Section 9.1. However, the analysis found that significant local construction air emissions would occur from the proposed project, which is based on the local thresholds of significance discussed above in Section 8.2. Mitigation Measures AIR-1 and AIR-2 have been provided that would reduce the construction-related local air impacts to less than significant levels.

The ongoing operation of the proposed project would generate air pollutant emissions that are inconsequential on a regional basis and would not result in significant impacts based on SCAQMD thresholds of significance discussed above in Section 8.1. The analysis for long-term operational local air quality impacts showed that local pollutant concentrations would not be projected to exceed the air quality standards. Therefore, a less than significant long-term impact would occur and no mitigation would be required.

Therefore, based on the information provided above, with implementation of Mitigation Measures AIR-1 and AIR-2, the proposed project would be consistent with the first criterion.

Criterion 2 - Exceed Assumptions in the AQMP?

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to insure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The AQMP is developed through use of the planning forecasts provided in the RTP/SCS (Connect SoCal) and FTIP (2019 FTIP). The RTP/SCS is a major planning document for the regional transportation and land use network within Southern California. The RTP/SCS is a long-range plan that is required by federal and state requirements placed on SCAG and is updated every four years. The FTIP provides long-range planning for future transportation improvement projects that are constructed with state and/or federal funds within Southern California. Local governments are required to use these plans as the basis of their plans for the purpose of consistency with applicable regional plans under CEQA. For this project, the City of Menifee General Plan's Land Use Plan defines the assumptions that are represented in AQMP.

Approximately 51.2 acres of the 55.4 gross acre project site would be disturbed from development of the proposed project. The portion of the project site that would be developed is currently designated as Residential (5.1-8 dwelling units per acre) and the southernmost portion of the project site that would not be developed is currently designated as Recreation (OS-R) in the General Plan Land Use Plan. The proposed project consists of the development of 330 single-family homes and a City Park on the portion of the project site that is designated as Residential and would leave the portion of the project site that is designated Recreation undisturbed. As such, the proposed project is consistent with the current land use designation and would not require a General Plan Amendment.

Based on the above, with implementation of Mitigation Measures AIR-1 and AIR-2, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur in relation to implementation of the AQMP.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

Mitigation Measure AIR-1

The project applicant shall require that construction contractor to water all unpaved construction roads a minimum of two times per day and to limit the speed on all unpaved construction roads to 15 miles per hour or less for the duration that unpaved construction roads exist on the project site.

Mitigation Measure AIR-2

The project applicant shall require that construction contractor only utilize off-road equipment on the project site that has been registered with CARB and all off-road equipment that is greater than 50 horsepower shall meet the US EPA Tier 4 Final emission standards.

Level of Significance After Mitigation

Less than significant impact.

10.3 Cumulative Net Increase in Non-Attainment Pollution

The proposed project would not 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.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (<http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf>). In this report the AQMD clearly states (Page D-3):

“...the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or Environmental Impact Report (EIR). The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is $HI > 1.0$ while the cumulative (facility- wide) is $HI > 3.0$. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts. Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.”

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable. The following section calculates the potential air emissions associated with the construction and operations of the proposed project and compares the emissions to the SCAQMD standards.

Construction Emissions

The construction activities for the proposed project are anticipated to include site preparation and grading of up to 51.2 acres of the 55.4 gross acre project site, building construction of 330 single-family homes, paving of the onsite roads, sidewalks and hardscapes and extension of Briggs Road along the eastern edge of the project site, and application of architectural coatings.

The CalEEMod model has been utilized to calculate the construction-related emissions from the proposed project and the input parameters utilized in this analysis have been detailed in Section 8.1. The daily construction-related criteria pollutant emissions from the proposed project by season and year of construction activities are shown below in Table S. It should be noted that the year 2029 construction emissions include the construction phases of building construction, paving, and architectural coating activities occurring concurrently, in order to provide a conservative analysis. The CalEEMod printouts for the criteria pollutant calculations are shown in Appendix A.

Table S – Construction-Related Criteria Pollutant Emissions Prior to Mitigation

Season and Year of Construction	Maximum Daily Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO ₂	PM10	PM2.5
Daily Summer Maximum						
2025	3.87	53.7	35.5	0.19	12.9	4.51
2026	1.60	11.5	21.8	0.03	2.25	0.81
2027	1.53	10.9	21.2	0.03	2.21	0.77
2028	1.47	10.4	20.6	0.03	2.17	0.74
2029	74.9	17.3	33.4	0.05	2.90	1.07
Daily Winter Maximum						
2025	5.91	74.2	50.5	0.22	17.5	7.21
2026	1.57	11.6	19.8	0.03	2.25	0.81
2027	1.50	11.0	19.3	0.03	2.21	0.77
2028	1.45	10.5	18.8	0.03	2.17	0.74
2029	74.8	17.4	31.1	0.05	2.90	1.07
Maximum Daily Construction Emissions	74.9	74.2	50.5	0.22	17.5	7.21
SCAQMD Regional Thresholds	75	100	550	150	150	55
Exceeds Regional Thresholds?	No	No	No	No	No	No
SCAQMD Local Thresholds¹	--	270	1,577	--	13	8
Exceeds Local Thresholds?	No	No	No	No	Yes	No

Notes:

¹ The nearest sensitive receptors to the project site are single-family homes located as near as 12 feet (4 meters) west of the project site. According to SCAQMD methodology, all receptors closer than 25 meters are based on the 25-meter threshold. Calculated from SCAQMD's Mass Rate Look-up Tables for five acres in Air Monitoring Area 24, Perris Valley.

Source: CalEEMod Version 2022.1.

Table S shows that none of the analyzed criteria pollutants would exceed the SCAQMD regional thresholds and the VOC, NOx, CO, SO₂ and PM_{2.5} would not exceed the SCAQMD local thresholds. However, Table S shows that PM₁₀ would exceed the SCAQMD Local threshold. This would be considered a significant impact.

Mitigation Measure AIR-1 has been provided that requires the contractor for the proposed project to water all unpaved construction roads a minimum of two times per day and to limit the speed on all unpaved construction roads to 15 miles per hour. Mitigation Measure AIR-2 has been provided that requires all off-road construction equipment greater than 50 horsepower that will be used on the project site during construction of the proposed project to be registered with CARB and shall meet the US EPA Tier 4 Final emission standards.

Mitigation Measures AIR-1 and AIR-2 were incorporated into the CalEEMod model run (see Appendix A) and the results are shown in Table T. Table T shows that with implementation of Mitigation Measures AIR-1 and AIR-2, the construction-related PM₁₀ emissions would be reduced to below the SCAQMD Local threshold of 13 pounds per day. Therefore, with implementation of Mitigation Measures AIR-1 and AIR-2, a less than significant local air quality impact would occur from construction of the proposed project.

Table T – Mitigated Construction-Related Criteria Pollutant Emissions

Season and Year of Construction	Maximum Daily Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO ₂	PM ₁₀	PM _{2.5}
Daily Summer Maximum						
2025	1.20	26.8	42.3	0.19	9.27	3.10
2026	0.99	4.72	23.9	0.03	1.98	0.56
2027	0.95	4.58	23.2	0.03	1.97	0.56
2028	0.93	4.49	22.6	0.03	1.96	0.55
2029	74.0	7.57	36.1	0.05	2.56	0.76
Daily Winter Maximum						
2025	1.27	27.8	55.4	0.22	12.8	4.89
2026	0.96	4.82	21.8	0.03	1.98	0.56
2027	0.93	4.68	21.3	0.03	1.97	0.56
2028	0.90	4.59	20.8	0.03	1.96	0.55
2029	73.9	7.68	33.8	0.05	2.56	0.76
Maximum Daily Construction Emissions	74.0	27.8	55.4	0.22	12.8	4.89
SCQAMD Regional Thresholds	75	100	550	150	150	55
Exceeds Regional Thresholds?	No	No	No	No	No	No
SCAQMD Local Thresholds¹	--	270	1,577	--	13	8
Exceeds Local Thresholds?	No	No	No	No	No	No

Notes:

¹ The nearest sensitive receptors to the project site are single-family homes located as near as 12 feet (4 meters) west of the project site. According to SCAQMD methodology, all receptors closer than 25 meters are based on the 25-meter threshold. Calculated from SCAQMD's Mass Rate Look-up Tables for five acres in Air Monitoring Area 24, Perris Valley.

Source: CalEEMod Version 2022.1.

Operational Emissions

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. This increase would be due to emissions from the project-generated vehicle trips, emissions from energy usage, onsite area source emissions created from the on-going use of the proposed project.

The following section provides an analysis of potential long-term air quality impacts due to regional air quality and local air quality impacts with the on-going operations of the proposed project.

Operations-Related Regional Criteria Pollutant Analysis

The operations-related regional criteria air quality impacts created by the proposed project have been analyzed through use of the CalEEMod model and the input parameters utilized in this analysis have been detailed in Section 8.1. The worst-case summer or winter VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5} daily emissions created from the proposed project's long-term operations have been calculated and are summarized below in Table U and the CalEEMod daily emissions printouts are shown in Appendix A.

Table U – Operational Regional Criteria Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Mobile Sources	8.95	5.15	75.3	0.17	17.4	4.44
Area Sources	21.2	0.18	18.8	<0.01	0.01	0.01
Energy Usage	0	0	0	0	0	0
Total Emissions	30.15	5.33	94.10	0.17	17.41	4.45
SCQAMD Regional Operational Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

¹ Mobile sources consist of emissions from vehicles and road dust.

² Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

³ Energy usage consists of emissions from natural gas usage. PDF-1 requires the project to be all-electric, as such no energy usage emissions would be created from the proposed project.

Source: Calculated from CalEEMod Version 2022.1.

The data provided in Table U shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

In *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502 (also referred to as “*Friant Ranch*”), the California Supreme Court held that when an EIR concluded that when a project would have significant impacts to air quality impacts, an EIR should “make a reasonable effort to substantively connect a project’s air quality impacts to likely health consequences.” In order to determine compliance with this Case, the Court developed a multi-part test that includes the following:

- 1) The air quality discussion shall describe the specific health risks created from each criteria pollutant, including diesel particulate matter.

This Analysis details the specific health risks created from each criteria pollutant above in Section 4.1 and specifically in Table B. In addition, the specific health risks created from diesel particulate matter is detailed above in Section 2.2 of this analysis. As such, this analysis meets the part 1 requirements of the *Friant Ranch* Case.

- 2) The analysis shall identify the magnitude of the health risks created from the Project. The Ruling details how to identify the magnitude of the health risks. Specifically, on page 24 of the ruling it states “The Court of Appeal identified several ways in which the EIR could have framed the

analysis so as to adequately inform the public and decision makers of possible adverse health effects. The County could have, for example, identified the Project's impact on the days of nonattainment per year."

The Friant Ranch Case found that an EIR's air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided. As noted in the Brief of Amicus Curiae by the SCAQMD in the Friant Ranch case (<https://www.courts.ca.gov/documents/9-s219783-ac-south-coast-air-quality-mgt-dist-041315.pdf>) (Brief), SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes. The SCAQMD discusses that it may be infeasible to quantify health risks caused by projects similar to the proposed Project, due to many factors. It is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). The Brief states that it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk, it does not necessarily mean anyone will contract cancer as a result of the Project. The Brief also cites the author of the CARB methodology, which reported that a PM_{2.5} methodology is not suited for small projects and may yield unreliable results. Similarly, SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects, due to photochemistry and regional model limitations. The Brief concludes, with respect to the Friant Ranch EIR, that although it may have been technically possible to plug the data into a methodology, the results would not have been reliable or meaningful.

On the other hand, for extremely large regional projects (unlike the proposed project), the SCAQMD states that it has been able to correlate potential health outcomes for very large emissions sources – as part of their rulemaking activity, specifically 6,620 pounds per day of NO_x and 89,180 pounds per day of VOC were expected to result in approximately 20 premature deaths per year and 89,947 school absences due to ozone. As shown above in Table T, project-related construction activities would generate a maximum of 74.0 pounds per day of VOC and 27.8 pounds per day of NO_x and as shown above in Table U, operation of the proposed project would generate 30.15 pounds per day of VOC and 5.33 pounds per day NO_x. The proposed project would not generate anywhere near these levels of 6,620 pounds per day of NO_x or 89,190 pounds per day of VOC emissions. Therefore, the proposed project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level.

Notwithstanding, this analysis does evaluate the proposed project's localized impact to air quality for emissions of CO, NO_x, PM₁₀, and PM_{2.5} by comparing the proposed project's onsite emissions to the SCAQMD's applicable LST thresholds. As evaluated in this analysis, the proposed project would not result in emissions that exceeded the SCAQMD's LSTs. Therefore, the proposed project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO_x, PM₁₀, and PM_{2.5}.

Operations-Related Local Air Quality Impacts

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a

regional impact to the Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analyzes the vehicular CO emissions and local impacts from on-site operations.

Local CO Hotspot Impacts from Project-Generated Vehicular Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards of 20 ppm over one hour or 9 ppm over eight hours.

At the time of the 1993 Handbook, the Air Basin was designated nonattainment under the CAAQS and NAAQS for CO. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations in the Air Basin and in the state have steadily declined. In 2007, the Air Basin was designated in attainment for CO under both the CAAQS and NAAQS. SCAQMD conducted a CO hot spot analysis for attainment at the busiest intersections in Los Angeles during the peak morning and afternoon periods and did not predict a violation of CO standards⁴. Since the nearby intersections to the proposed project are much smaller with less traffic than what was analyzed by the SCAQMD, no local CO Hotspot are anticipated to be created from the proposed project and no CO Hotspot modeling was performed. Therefore, a less than significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

Local Criteria Pollutant Impacts from Onsite Operations

Project-related air emissions from onsite sources such as architectural coatings, landscaping equipment, and onsite usage of natural gas appliances may have the potential to create emissions areas that exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Air Basin.

The local air quality emissions from onsite operations were analyzed using the SCAQMD's Mass Rate LST Look-up Tables and the methodology described in LST Methodology. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. Table N shows the onsite emissions from the CalEEMod model that includes area sources, energy usage, and vehicles operating in the immediate vicinity of the project site and the calculated emissions thresholds.

⁴The four intersections analyzed by the SCAQMD were: Long Beach Boulevard and Imperial Highway; Wilshire Boulevard and Veteran Avenue; Sunset Boulevard and Highland Avenue; and La Cienega Boulevard and Century Boulevard. The busiest intersection evaluated (Wilshire and Veteran) had a daily traffic volume of approximately 100,000 vehicles per day with LOS E in the morning and LOS F in the evening peak hour.

Table V – Operations-Related Local Criteria Pollutant Emissions

Onsite Emission Source	Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Mobile Sources	0.16	2.29	0.53	0.13
Area Sources	0.18	18.80	0.01	0.01
Energy Usage	0	0	0	0
Total Emissions	0.34	21.09	0.54	0.14
SCAQMD Local Operational Thresholds¹	270	1,577	4	2
Exceeds Threshold?	No	No	No	No

Notes:

¹ Mobile sources consist of emissions from vehicles and road dust and were calculated based on 3 percent of the mobile source emissions, in order to account for the on-road emissions that occur within a ¼ mile of the project site and based on an average trip length of 8.22 miles.

² Area sources consist of emissions from consumer products, architectural coatings and landscaping equipment.

³ Energy usage consist of emissions from natural gas usage. PDF-1 requires the project to be all-electric, as such no energy usage emissions would be created from the proposed project.

⁴ The nearest offsite sensitive receptors to the project site are single-family homes located as near as 12 feet (4 meters) west of the project site. According to SCAQMD methodology, all receptors closer than 25 meters are based on the 25-meter threshold.

Source: Calculated from SCAQMD's Mass Rate Look-up Tables for five acres in Air Monitoring Area 24, Perris Valley.

The data provided in Table N shows that the on-going operations of the proposed project would not exceed the local NOx, CO, PM10 and PM2.5 thresholds of significance discussed above in Section 9.2. Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to onsite emissions and no mitigation would be required.

Therefore, with implementation of Mitigation Measures AIR-1 and AIR-2, the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

Mitigation Measures AIR-1 and AIR-2 are provided above in Section 9.2.

Level of Significance After Mitigation

Less than significant impact.

10.4 Sensitive Receptors

The proposed project would not expose sensitive receptors to substantial pollutant concentrations. The local concentrations of criteria pollutant emissions produced in the nearby vicinity of the proposed project, which may expose sensitive receptors to substantial concentrations have been calculated above in Section 10.3 for both construction and operations, which are discussed separately below. The discussion below also includes an analysis of the potential impacts from toxic air contaminant emissions. The nearest sensitive receptors to the project site are residents at the single-family homes on the west side of the project site, located as near as 12 feet west of the project site. There are also single-family homes on the north side of Simpson Road that are located as near as 120 feet north of the project site. The nearest K-12 school is Ethan Chase Middle School that is located as near as 1,460 feet north of the project site.

Construction-Related Sensitive Receptor Impacts

The construction activities for the proposed project are anticipated to include site preparation and grading of up to 51.2 acres of the 55.4 gross acre project site, building construction of 330 single-family homes, paving of the onsite roads, sidewalks and hardscapes and extension of Briggs Road along the eastern edge of the project site, and application of architectural coatings. Construction activities may expose sensitive receptors to substantial pollutant concentrations of localized criteria pollutant concentrations and from toxic air contaminant emissions created from onsite construction equipment, which are described below.

Local Criteria Pollutant Impacts from Construction

The local air quality impacts from construction of the proposed project have been analyzed above in Section 10.3 and found that during construction of the proposed project that PM₁₀ would exceed the SCAQMD Local threshold. This would be considered a significant impact.

Mitigation Measure AIR-1 has been provided that requires the contractor for the proposed project to water all unpaved construction roads a minimum of two times per day and to limit the speed on all unpaved construction roads to 15 miles per hour. Mitigation Measure AIR-2 has been provided that requires all off-road construction equipment greater than 50 horsepower that will be used on the project site during construction of the proposed project to be registered with CARB and shall meet the US EPA Tier 4 Final emission standards. The analysis provided above in Section 10.3 found that with implementation of Mitigation Measures AIR-1 and AIR-2 that the PM₁₀ emissions would be reduced to within the SCAQMD Local thresholds. Therefore, with implementation of Mitigation Measures AIR-1 and AIR-2 construction of the proposed project would create a less than significant construction-related impact to local air quality.

Toxic Air Contaminants Impacts from Construction

Construction activities associated with the proposed project would generate DPM emissions from diesel truck trips to the project site as well as from off-road diesel-powered equipment. The TAC impacts to the nearby sensitive receptors have been analyzed through use of the AERMOD model and the model input parameters detailed above. Health risks from TACs are twofold. First, TACs are carcinogens according to the State of California. Second, short-term acute and long-term chronic exposure to TACs can cause health effects to the respiratory system. Each of these health risks is discussed below.

Cancer Risks

According to the OEHHA Guidance (OEHHA, 2015) and *Risk Assessment Procedures for Rules 1401, 1401.1 and 212*, (SCAQMD, 2017), the cancer risk should be calculated using the following formula:

Cancer Risk = [Dose-inh (mg/(Kg-day))] * [Cancer Potency Factor (kg-day)/mg]*[1x10⁶] * Age Sensitivity Factor * Fraction of Time at Home

$$\text{Dose-inh} = (C_{\text{air}} * \text{DBR} * A * \text{EF} * \text{ED} * 10^6) / \text{AT}$$

Where:

C _{air}	[Concentration in air (µg/m ³)] = (Calculated by AERMOD Model)
DBR	[Daily breathing rate (L/kg body weight – day)]
A	[Inhalation absorption factor]
EF	[Exposure frequency (days/year)]

ED	[Exposure duration (years)]
10 ⁶	[Micrograms to milligrams conversion]
AT	[Average time period over which exposure is averaged in days]

The cancer risk parameters used in this evaluation for the nearby residential uses are shown in Table W and are based on construction occurring over a 4.8 year period from January 2025 to October 2029. Each year was analyzed separately, with year 2025 representing from third trimester to 9 months, year 2026 represented 9 months to 1.7 years, year 2027 represented 1.7 years to 2.7 years, year 2028 represented 2.7 years to 3.7 years, and 2029 represented 3.7 years to 4.5 years of age.

Table W – DPM Cancer Risk Calculation Parameters

Parameter	Construction Year				
	2025 (3 rd Tri to 9 months)	2026 (9 months to 1.7 yr)	2027 (1.7 yr to 2.7 yr)	2028 (2.7 yr to 3.7 yr)	2029 (3.7 yr to 4.5 yr)
Cancer Potency Factor (mg/kg-day) for DPM	1.1	1.1	1.1	1.1	1.1
Daily Breathing Rate (L/kg body weight-day)	908 ⁽¹⁾	1,090	961 ⁽²⁾	572	572
Inhalation Absorption Factor	1	1	1	1	1
Exposure Frequency (days/year)	350	350	350	350	350
Exposure Duration (years)	1.0	1.0	1.0	1.0	0.83
Age Sensitivity Factor	10	10	8 ⁽³⁾	3	3
Fraction of Time at Home	1.0	1.0	1.0	1.0	1.0
Averaging Time ³ (days)	25,550	25,550	25,550	25,550	25,550
Potential Cancer Risk =	C_{air} * 137	C_{air} * 164	C_{air} * 119	C_{air} * 25.9	C_{air} * 21.5

Notes:

¹ Based on 95th percentile breathing rate of 361 for 3rd trimester for 3 months and 1,090 for 0 to 2 years for 9 months.

² Based on 95th percentile breathing rate of 1,090 for 0 to 2 years for 9 months and 572 for 2 to 17 years for 3 months.

³ Based on Age Sensitivity Factors of 10 for 9 months and 3 for 3 months.

³ Based on a 70-year average lifetime.

Source: OEHHA, 2015; SCAQMD, 2017

Table X provides a summary of the calculated diesel emission concentrations at the nearest sensitive receptors and associated cancer risk from DPM emissions at the nearby homes, park and school. The AERMOD printouts are provided in Appendices E, F, G, H, and I.

Table X – Construction-Related DPM Emissions Cancer Risks Prior to Mitigation

Sensitive Receptor ¹	Receptor Location		Annual DPM (PM10) Concentration (µg/m ³)					Cancer Risk Per Million People ²
	X	Y	2025	2026	2027	2028	2029	
1	486,813	3,729,922	0.0353	0.0114	0.0101	0.0091	0.0091	8.3
2	487,009	3,730,092	0.0322	0.0104	0.0092	0.0083	0.0083	7.6
3	487,311	3,729,863	0.0465	0.0149	0.0131	0.0119	0.0119	<u>10.9</u>
4	487,307	3,729,738	0.0667	0.0214	0.0188	0.0171	0.0171	<u>15.7</u>
5	486,860	3,729,683	0.0600	0.0193	0.0170	0.0154	0.0154	<u>14.1</u>
6	487,048	3,729,688	0.0993	0.0320	0.0281	0.0256	0.0256	<u>23.4</u>
7	487,199	3,729,688	0.0988	0.0318	0.0280	0.0254	0.0254	<u>23.3</u>
8	486,918	3,729,626	0.0817	0.0263	0.0232	0.0211	0.0210	<u>19.3</u>
9	486,941	3,729,485	0.1214	0.0393	0.0346	0.0314	0.0314	<u>28.7</u>
10	486,937	3,729,361	0.1341	0.0434	0.0382	0.0347	0.0347	<u>31.7</u>
11	486,938	3,729,245	0.1187	0.0384	0.0338	0.0307	0.0307	<u>28.0</u>
12	486,915	3,728,830	0.0342	0.0111	0.0097	0.0089	0.0089	8.1
Threshold of Significance								10
Exceed Threshold?								Yes

Notes:

¹ The locations of each Sensitive Receptor are shown above in Figure 3.

² The residential cancer risk based on: $C_{air} (2025) * 137 + C_{air} (2026) * 164 + C_{air} (2027) * 119 + C_{air} (2028) * 25.9 + C_{air} (2029) * 21.5$.

Source: Calculated from ISC-AERMOD View Version 11.2.0.

Table X shows that the cancer risk from DPM emissions created from construction of the proposed project would exceed the SCAQMD's threshold of 10 per million at Receptors 3 through 11. As shown on Figure 3, Receptors 3 through 7 are located at the homes north of the project site and Receptors 8 through 11 are located at the homes that are adjacent to the west side of the project site. This would be considered a significant impact.

Mitigation Measure AIR-2 has been provided that requires all off-road construction equipment greater than 50 horsepower that will be used on the project site during construction of the proposed project to be registered with CARB and shall meet the US EPA Tier 4 Final emission standards.

Mitigation Measure AIR-2 was incorporated into the AERMOD model runs (see Appendices E, F, G, H, and I) and the results are shown in Table T. Table T shows that with implementation of Mitigation Measure AIR-2, the construction-related DPM emissions would be reduced to below the SCAQMD threshold of 10 per million. Therefore, with implementation of Mitigation Measure AIR-2, a less than significant DPM cancer risk impact would occur from construction of the proposed project.

Table Y – Mitigated Construction-Related DPM Emissions Cancer Risks

Sensitive Receptor ¹	Receptor Location		Annual DPM (PM10) Concentration (µg/m ³)					Cancer Risk Per Million People ²
	X	Y	2025	2026	2027	2028	2029	
1	486,813	3,729,922	0.0047	0.0032	0.0032	0.0028	0.0032	1.7
2	487,009	3,730,092	0.0043	0.0029	0.0029	0.0025	0.0029	1.5
3	487,311	3,729,863	0.0067	0.0042	0.0042	0.0036	0.0042	2.3
4	487,307	3,729,738	0.0094	0.0061	0.0061	0.0052	0.0060	3.3
5	486,860	3,729,683	0.0086	0.0055	0.0055	0.0047	0.0054	3.0
6	487,048	3,729,688	0.0137	0.0090	0.0090	0.0077	0.0090	4.8
7	487,199	3,729,688	0.0137	0.0090	0.0090	0.0077	0.0090	4.8
8	486,918	3,729,626	0.0113	0.0074	0.0074	0.0064	0.0074	4.0
9	486,941	3,729,485	0.0160	0.0110	0.0110	0.0095	0.0110	5.8
10	486,937	3,729,361	0.0176	0.0122	0.0122	0.0104	0.0122	6.4
11	486,938	3,729,245	0.0156	0.0108	0.0108	0.0092	0.0108	5.7
12	486,915	3,728,830	0.0045	0.0031	0.0031	0.0027	0.0031	1.6
Threshold of Significance								10
Exceed Threshold?								No

Notes:

¹ The locations of each Sensitive Receptor are shown above in Figure 3.

² The residential cancer risk based on: $C_{air} (2025) * 137 + C_{air} (2026) * 164 + C_{air} (2027) * 119 + C_{air} (2028) * 25.9 + C_{air} (2029) * 21.5$.

Source: Calculated from ISC-AERMOD View Version 11.2.0.

Non-Cancer Risks

In addition to the cancer risk from exposure to TAC emissions there is also the potential TAC exposure may result in adverse health impacts from chronic illnesses, which is detailed below. According to the OEHHA, no acute risk had been found to be created from DPM, so there is no acute AREL assigned to DPM and no further analysis is provided as no acute impact would be created from the DPM emissions created by the proposed project.

Chronic Health Impacts

Chronic health effects are characterized by prolonged or repeated exposure to a TAC over many days, months, or years. Symptoms from chronic health impacts may not be immediately apparent and are often irreversible. The chronic hazard index is based on the most impacted sensitive receptor from the proposed project and is calculated from the annual average concentrations of PM2.5. The relationship for non-cancer chronic health effects is given by the equation:

$$HI_{DPM} = C_{DPM} / REL_{DPM}$$

Where,

HI_{DPM} = Hazard Index; an expression of the potential for non-cancer health effects.

C_{DPM} = Annual average diesel particulate matter concentration in µg/m³.

REL_{DPM} = Reference Exposure Level (REL) for diesel particulate matter; the diesel particulate matter concentration at which no adverse health effects are anticipated.

The REL_{DPM} is 5 µg/m³. The Office of Environmental Health Hazard Assessment has established this concentration as protective for the respiratory system. As shown above in Table X, the AERMOD model found that the highest annual off-site concentration is 0.1341 µg/m³ for DPM chronic non-cancer risk emissions. The resulting Hazard Index is:

$$HI_{DPM} = 0.1341 / 5 = 0.0268$$

The criterion for significance is a Chronic Hazard Index increase of 1.0 or greater, which is detailed above. Therefore, the on-going operations of the proposed project would result in a less than significant impact due to the non-cancer chronic health risk from TAC emissions created by the proposed project.

Therefore, construction of the proposed project would result in a less than significant exposure of sensitive receptors to substantial pollutant concentrations.

Operations-Related Sensitive Receptor Impacts

The on-going operations of the proposed project may expose sensitive receptors to substantial pollutant concentrations of local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from onsite operations. The following analyzes the vehicular CO emissions. Local criteria pollutant impacts from onsite operations, and toxic air contaminant impacts.

Local CO Hotspot Impacts from Project-Generated Vehicle Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential impacts to sensitive receptors. The analysis provided above in Section 10.3 shows that no local CO Hotspots are anticipated to be created at any nearby intersections from the vehicle traffic generated by the proposed project. Therefore, operation of the proposed project would result in a less than significant exposure of offsite sensitive receptors to substantial pollutant concentrations.

Local Criteria Pollutant Impacts from Onsite Operations

The local air quality impacts from the operation of the proposed project would occur from onsite sources such as architectural coatings, landscaping equipment, and onsite usage of natural gas appliances. The analysis provided above in Section 10.3 found that the operation of the proposed project would not exceed the local NO_x, CO, PM₁₀ and PM_{2.5} thresholds of significance discussed above in Section 9.2. Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to on-site emissions and no mitigation would be required.

Operations-Related Toxic Air Contaminant Impacts

Particulate matter (PM) from diesel exhaust is the predominant TAC in most areas and according to *The California Almanac of Emissions and Air Quality 2013 Edition*, prepared by CARB, about 80 percent of the outdoor TAC cancer risk is from diesel exhaust. Some chemicals in diesel exhaust, such as benzene and formaldehyde have been listed as carcinogens by State Proposition 65 and the Federal Hazardous Air Pollutants program. Due to the nominal number of diesel truck trips that are anticipated to be generated by the on-going operation of the proposed single-family homes, a less than significant TAC impact would be created from the on-going operations of the proposed project and no mitigation would be required.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

Mitigation Measures AIR-1 and AIR-2 are provided above in Section 9.2.

Level of Significance After Mitigation

Less than significant impact.

10.5 Odor Emissions

The proposed project would not create objectionable odors affecting a substantial number of people. Individual responses to odors are highly variable and can result in a variety of effects. Generally, the impact of an odor results from a variety of factors such as frequency, duration, offensiveness, location, and sensory perception. The frequency is a measure of how often an individual is exposed to an odor in the ambient environment. The intensity refers to an individual's or group's perception of the odor strength or concentration. The duration of an odor refers to the elapsed time over which an odor is experienced. The offensiveness of the odor is the subjective rating of the pleasantness or unpleasantness of an odor. The location accounts for the type of area in which a potentially affected person lives, works, or visits; the type of activity in which he or she is engaged; and the sensitivity of the impacted receptor.

Sensory perception has four major components: detectability, intensity, character, and hedonic tone. The detection (or threshold) of an odor is based on a panel of responses to the odor. There are two types of thresholds: the odor detection threshold and the recognition threshold. The detection threshold is the lowest concentration of an odor that will elicit a response in a percentage of the people that live and work in the immediate vicinity of the project site and is typically presented as the mean (or 50 percent of the population). The recognition threshold is the minimum concentration that is recognized as having a characteristic odor quality, this is typically represented by recognition by 50 percent of the population. The intensity refers to the perceived strength of the odor. The odor character is what the substance smells like. The hedonic tone is a judgment of the pleasantness or unpleasantness of the odor. The hedonic tone varies in subjective experience, frequency, odor character, odor intensity, and duration. Potential odor impacts have been analyzed separately for construction and operations below.

Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of coatings such as asphalt pavement, paints and solvents and from emissions from diesel equipment. Standard construction requirements that limit the time of day when construction may occur as well as SCAQMD Rule 1108 that limits VOC content in asphalt and Rule 1113 that limits the VOC content in paints and solvents would minimize odor impacts from construction. As such, the objectionable odors that may be produced during the construction process would be temporary and would not likely be noticeable for extended periods of time beyond the project site's boundaries. Through compliance with the applicable regulations that reduce odors and due to the transitory nature of construction odors, a less than significant odor impact would occur and no mitigation would be required.

Operations-Related Odor Impacts

The proposed project would consist of the development of a single-family residential development. The proposed project would not contain any known sources of odors. Therefore, no significant impact related to odors would occur during the on-going operations of the proposed project.

Level of Significance

Less than significant impact.

10.6 Energy Consumption

The proposed project would impact energy resources during construction and operation. Energy resources that would be potentially impacted include electricity, natural gas, and petroleum based fuel supplies and distribution systems. This analysis includes a discussion of the potential energy impacts of the proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy. A general definition of each of these energy resources are provided below.

Electricity, a consumptive utility, is a man-made resource. The production of electricity requires the consumption or conversion of energy resources, including water, wind, oil, gas, coal, solar, geothermal, and nuclear resources, into energy. The delivery of electricity involves a number of system components, including substations and transformers that lower transmission line power (voltage) to a level appropriate for on-site distribution and use. The electricity generated is distributed through a network of transmission and distribution lines commonly called a power grid. Conveyance of electricity through transmission lines is typically responsive to market demands. In 2021, Riverside County consumed 16,767 Gigawatt-hours per year of electricity⁵.

Natural gas is a combustible mixture of simple hydrocarbon compounds (primarily methane) that is used as a fuel source. Natural gas consumed in California is obtained from naturally occurring reservoirs, mainly located outside the State, and delivered through high-pressure transmission pipelines. The natural gas transportation system is a nationwide network and, therefore, resource availability is typically not an issue. Natural gas satisfies almost one-third of the State's total energy requirements and is used in electricity generation, space heating, cooking, water heating, industrial processes, and as a transportation fuel. Natural gas is measured in terms of cubic feet. In 2021, Riverside County consumed 430.844 Million Therms of natural gas⁶.

Petroleum-based fuels currently account for a majority of the California's transportation energy sources and primarily consist of diesel and gasoline types of fuels. However, the state has been working on developing strategies to reduce petroleum use. Over the last decade California has implemented several policies, rules, and regulations to improve vehicle efficiency, increase the development and use of alternative fuels, reduce air pollutants and GHG emissions from the transportation sector, and reduce vehicle miles traveled (VMT). Accordingly, petroleum-based fuel consumption in California has declined. In 2017, 1,052 million gallons of gasoline and 148 million gallons of diesel was sold in Riverside County⁷.

⁵ Obtained from: <http://www.ecdms.energy.ca.gov/elecbycounty.aspx>

⁶ Obtained from: <http://www.ecdms.energy.ca.gov/gasbycounty.aspx>

⁷ Obtained from: https://ww2.energy.ca.gov/almanac/transportation_data/gasoline/

The following section calculates the potential energy consumption associated with the construction and operations of the proposed project and provides a determination if any energy utilized by the proposed project is wasteful, inefficient, or unnecessary consumption of energy resources.

Construction Energy

The construction activities for the proposed project are anticipated to include site preparation and grading of up to 51.2 acres of the 55.4 gross acre project site, building construction of 330 single-family homes, paving of the onsite roads, sidewalks and hardscapes and extension of Briggs Road along the eastern edge of the project site, and application of architectural coatings. The proposed project would consume energy resources during construction in three (3) general forms:

1. Petroleum-based fuels used to power off-road construction vehicles and equipment on the Project Site, construction worker travel to and from the Project Site, as well as delivery and haul truck trips (e.g. hauling of demolition material to off-site reuse and disposal facilities);
2. Electricity associated with the conveyance of water that would be used during Project construction for dust control (supply and conveyance) and electricity to power any necessary lighting during construction, electronic equipment, or other construction activities necessitating electrical power; and,
3. Energy used in the production of construction materials, such as asphalt, steel, concrete, pipes, and manufactured or processed materials such as lumber and glass.

Construction-Related Electricity

During construction the proposed project would consume electricity to construct the proposed warehouse and infrastructure. Electricity would be supplied to the project site by Southern California Edison and would be obtained from the existing electrical lines in the vicinity of the project site. The use of electricity from existing power lines rather than temporary diesel or gasoline powered generators would minimize impacts on fuel consumption. Electricity consumed during project construction would vary throughout the construction period based on the construction activities being performed. Various construction activities include electricity associated with the conveyance of water that would be used during project construction for dust control (supply and conveyance) and electricity to power any necessary lighting during construction, electronic equipment, or other construction activities necessitating electrical power. Such electricity demand would be temporary, nominal, and would cease upon the completion of construction. Overall, construction activities associated with the proposed project would require limited electricity consumption that would not be expected to have an adverse impact on available electricity supplies and infrastructure. Therefore, the use of electricity during project construction would not be wasteful, inefficient, or unnecessary.

Since there are currently power lines in the vicinity of the project site, it is anticipated that only nominal improvements would be required to Southern California Edison Utility distribution lines and equipment with development of the proposed project. Compliance with City's guidelines and requirements would ensure that the proposed project fulfills its responsibilities relative to infrastructure installation, coordinates any electrical infrastructure removals or relocations, and limits any impacts associated with construction of the project. Construction of the project's electrical infrastructure is not anticipated to adversely affect the electrical infrastructure serving the surrounding uses or utility system capacity.

Construction-Related Petroleum Fuel Use

Petroleum-based fuel usage represents the highest amount of transportation energy potentially consumed during construction, which would be utilized by both off-road equipment operating on the project site and on-road automobiles transporting workers to and from the project site and on-road trucks transporting equipment and supplies to the project site.

The off-road construction equipment fuel usage was calculated through use of the off-road equipment assumptions and fuel use assumptions shown above in Section 8.2, which found that construction of the proposed project would consume 45,780 gallons of gasoline and 291,956 gallons of diesel fuel. This equates to 0.004 percent of the gasoline and 0.2 percent of the diesel consumed annually in Riverside County. As such, the construction-related petroleum use would be nominal, when compared to current county-wide petroleum usage rates.

Construction activities associated with the proposed project would be required to adhere to all State and SCAQMD regulations for off-road equipment and on-road trucks, which provide minimum fuel efficiency standards. As such, construction activities for the proposed project would not result in the wasteful, inefficient, and unnecessary consumption of energy resources. Impacts regarding transportation energy would be less than significant. Development of the project would not result in the need to manufacture construction materials or create new building material facilities specifically to supply the proposed project. It is difficult to measure the energy used in the production of construction materials such as asphalt, steel, and concrete, it is reasonable to assume that the production of building materials such as concrete, steel, etc., would employ all reasonable energy conservation practices in the interest of minimizing the cost of doing business.

Operational Energy

The on-going operation of the proposed project would require the use of energy resources for multiple purposes including, but not limited to, heating/ventilating/air conditioning (HVAC), refrigeration, lighting, appliances, and electronics. Energy would also be consumed during operations related to water usage, solid waste disposal, landscape equipment and vehicle trips.

Operations-Related Electricity

Operation of the proposed project would result in consumption of electricity at the project site. As detailed above in Section 8.2 the proposed project would consume 3,039,213 kilowatt-hours per year of electricity. This equates to 0.018 percent of the electricity consumed annually in the County of Riverside. As such, the operations-related electricity use would be nominal, when compared to current electricity usage rates in the County.

It should be noted that the proposed project will be required to meet the 2022 Title 24, Part 6 building energy efficiency standards that have been developed to meet the State's goal of zero-net-energy use for new homes. The zero net energy use will be achieved through a variety of measures to make new homes more energy efficient and by also requiring installation of photovoltaic systems of adequate size to generate enough electricity to meet the zero-net energy use standard. Although, the proposed project would be designed to be net zero energy use, the CalEEMod model found that the proposed project would continue to utilize a nominal amount of power. Therefore, it is anticipated the proposed project will be designed and built to minimize electricity use and that existing and planned electricity capacity and electricity supplies would be sufficient to support the proposed project's electricity demand. Thus,

impacts with regard to electrical supply and infrastructure capacity would be less than significant and no mitigation measures would be required.

Operations-Related Natural Gas

As detailed in Project Design Feature 1, the project will be designed as an All-Electric Development, which requires all appliances that are installed into the proposed homes to be electric powered and no natural gas lines shall be run to the proposed homes. As such, no natural gas will be consumed from operation of the proposed project and no impact would occur from natural gas usage.

Operations-Related Vehicular Petroleum Fuel Usage

Operation of the proposed project would result in increased consumption of petroleum-based fuels related to vehicular travel to and from the project site. As detailed above in Section 8.2 the proposed project would consume 282,285 gallons of gasoline fuel per year from vehicle travel. This equates to 0.027 percent of the gasoline consumed in Riverside County annually. As such, the operations-related petroleum use would be nominal, when compared to current petroleum usage rates.

It should be noted that, the proposed project would comply with all Federal, State, and City requirements related to the consumption of transportation energy that includes California Code of Regulations Title 24, Part 10 California Green Building Standards that require all new garages for the proposed homes to install electrical panels of adequate size to support the installation of electric vehicle charging systems. Therefore, it is anticipated the proposed project will be designed and built to minimize transportation energy through the promotion of the use of electric-powered vehicles and it is anticipated that existing and planned capacity and supplies of transportation fuels would be sufficient to support the proposed project's demand. Thus, impacts with regard transportation energy supply and infrastructure capacity would be less than significant and no mitigation measures would be required.

In conclusion, the proposed project would comply with regulatory compliance measures outlined by the State and City related to Air Quality, Greenhouse Gas Emissions (GHG), Transportation/Circulation, and Water Supply. Additionally, the proposed project would be constructed in accordance with all applicable City Building and Fire Codes. Therefore, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation. Impacts would be less than significant.

Level of Significance

Less than significant impact.

10.7 Energy Plan Consistency

The proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. The applicable energy plan for the proposed project is the *City of Meniffee General Plan Open Space and Conservation Element*, adopted 2013. The proposed project's consistency with the energy conservation policies from the General Plan are shown in Table Z.

Table Z – Proposed Project Compliance with the General Plan Energy Conservation Policies

General Plan Policy	Proposed Project Implementation Actions
Goal OSC-4: Efficient and environmentally use and management of energy and mineral resources to ensure their availability for future generations	
Policy OCS-4.1: Apply energy efficiency and conservation practices in land use, transportation demand management, and subdivision and building design.	Consistent. The proposed homes will be designed to meet or exceed the 2022 Title 24 Part 6 building standards that require all single-family homes built in California to have rooftop solar PV systems, enhanced insulation, and to install energy efficient appliances.
Policy OCS-4.2: Evaluate public and private efforts to develop and operate alternative systems of energy production, including solar, wind, and fuel cell.	Not Applicable. The policy is for the City to implement, however the proposed project will be required to install a solar PV rooftop system onto each home.
Policy OCS-4.3: Advocate for cost-effective and reliable production and delivery of electrical power to residents and businesses throughout the community.	Not Applicable. This policy is directed to San Jacinto Power and Southern California Edison.
Policy OCS-4.4: Require that any future mining activities be in compliance with the State Mining Reclamation Act, federal and state environmental regulations, and local ordinances.	Not Applicable. The policy is related to mining, which is not a part of the proposed project.
Policy OCS-4.5: Limit the impacts of mining operations on the city's natural open space, biological and scenic resources, cultural resources and landscapes, and any adjacent land uses.	Not Applicable. The policy is related to mining, which is not a part of the proposed project.

Source: City of Menifee, 2013.

As shown in Table Z, the proposed project would be consistent with all applicable energy conservation policies from the General Plan Conservation Element. Therefore, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Impacts would be less than significant.

Level of Significance

Less than significant impact.

10.8 Generation of Greenhouse Gas Emissions

The proposed project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment and would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing GHG emissions. The proposed project would consist of a single-family residential development. The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste disposal, water usage, and construction equipment.

The General Plan EIR (City of Menifee, 2013) utilized the SCAQMD Working Group's Tier 4 Option #3 Efficiency Target for analyzing general plans of 4.1 MTCO₂e per year per service population by the year 2035. In order to be consistent with the methodology utilized in the General Plan EIR, the SCAQMD Working Group's Tier 4 Option #3 project level threshold was utilized in this analysis of 3.0 MTCO₂e per year per service population for the year 2035. It should be noted that this is the project level threshold, which is more restrictive than the plan level threshold utilized in the General Plan EIR. A summary of the results is shown below in Table AA and the CalEEMod model run is provided in Appendix A.

Table AA – Project Related Greenhouse Gas Annual Emissions

Category	Greenhouse Gas Emissions (Metric Tons per Year)			
	CO ₂	CH ₄	N ₂ O	CO ₂ e
Mobile Sources ¹	2,459	0.09	0.08	2,488
Area Sources ²	5.68	<0.01	<0.01	5.70
Energy Usage ³	640	0.06	<0.01	362
Water and Wastewater ⁴	27.1	0.44	<0.01	28.2
Solid Waste ⁵	27.0	2.70	0.00	94.6
Refrigeration ⁶	--	--	--	1.00
Construction ⁷	147.1	<0.01	<0.01	150.63
Total GHG Emissions	3,306	3.30	0.11	3,130
Service Population ⁸				1,066
GHG Emissions per Service Population				2.94
SCAQMD Tier 4 Option #3 Threshold of Significance per Service Population				3.0
Exceed Threshold?				No

Notes:

¹ Mobile sources consist of GHG emissions from vehicles.

² Area sources consist of GHG emissions from consumer products, architectural coatings, and landscaping equipment.

³ Energy usage consists of GHG emissions from electricity and natural gas usage. PDF-1 requires the project to be all-electric, as such no energy usage emissions would be created from the proposed project.

⁵ Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

⁴ Waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.

⁶ Refrigeration includes GHG emissions from refrigerants used in air conditioning units.

⁷ Construction emissions amortized over 30 years as recommended in the SCAQMD GHG Working Group on November 19, 2009.

⁸ Service Population represents number of residents that would live in the proposed homes and is based on the default Population in CalEEMod for a 330 home development.

Source: CalEEMod Version 2022.1.

The data provided in Table AA shows that the proposed project would create 3,130 MTCO₂e per year in the year 2035 and would result in an efficiency rate of 2.94 MTCO₂e per year per service population. The GHG emissions created from the proposed project would be within the SCAQMD's Tier 4, Option 3 year 2035 Efficiency Target of 3.0 MTCO₂e per year per service population (see Section 9.6 above). In addition, the project applicant has committed to implementing PDF-1 that requires the proposed project to be an All-Electric Development, as such there would be no natural gas use from operation of the proposed project that would further reduce GHG emissions above current State and City regulations. Therefore, a less than significant generation of greenhouse gas emissions would occur from development of the proposed project. Impacts would be less than significant.

Level of Significance

Less than significant impact.

10.9 Greenhouse Gas Plan Consistency

The proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing GHG emissions. The applicable plan for the proposed project is the *ty of Menifee General Plan Open Space and Conservation Element*, adopted 2013, that requires the City to consider impacts to climate change as a factor in evaluating projects within the City. The proposed project would be designed to exceed the current Title 24 Part 6 building standards that require all new homes to be designed to use net zero energy, through a combination of energy efficiency measures as well as requiring all new homes to install rooftop photovoltaic systems that are of adequate size to

generate enough electricity to meet the net-zero energy requirements. The project applicant has committed to PDF-1 that requires the proposed project to be an All-Electric Development, as such there would be no natural gas use from operation of the proposed project that would further reduce GHG emissions above the current Title 24 Part 6 building standards requirements. Also, the California Green Building Code requires that the all new developments to institute additional energy efficiency and water conservation measures. Through adherence to the current Title 24 Part 6 building standards, the California Green Building Code, and implementation of PDF-1, the proposed project would meet the reduction goals provided in the General Plan.

In addition to the City's GHG reduction plan, the SCAQMD initiated a Working Group to develop a GHG emissions policy and provided detailed methodology for evaluating significance under CEQA and the SCAQMD's thresholds were utilized in the analysis of the General Plan EIR (City of Menifee, 2013). As detailed above in Section 10.8, the GHG emissions created from the proposed project were found to be within the SCAQMD's the SCAQMD's Tier 4, Option 3 year 2035 Efficiency Target of 3.0 MTCO₂e per year per service population. Therefore, the proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

Level of Significance

Less than significant impact.

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APPENDIX A

CalEEMod Model Opening Year 2029 Printouts

Menifee TTM No. 38625 Opening Year 2029 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Menifee TTM No. 38625 Opening Year 2029
Construction Start Date	9/2/2024
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	0.20
Location	33.70580620415252, -117.13908424098275
County	Riverside-South Coast
City	Menifee
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6831
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.19

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

Single Family Housing	330	Dwelling Unit	30.2	839,302	299,693	—	1,066	—
City Park	9.00	Acre	8.60	0.00	74,923	74,923	—	—
Other Asphalt Surfaces	12.0	Acre	12.4	0.00	108,029	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Transportation	T-1	Increase Residential Density
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-15	Require All-Electric Development
Water	W-4	Require Low-Flow Water Fixtures

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	74.9	53.7	35.5	0.19	1.83	11.1	12.9	1.72	2.79	4.51	26,633	0.65	3.17	43.1	27,637
Mit.	74.0	26.8	42.3	0.19	0.55	8.72	9.27	0.55	2.56	3.10	26,633	0.65	3.17	43.1	27,637
% Reduced	1%	50%	-19%	—	70%	21%	28%	68%	8%	31%	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	74.8	74.2	50.5	0.22	2.84	14.7	17.5	2.64	4.57	7.21	29,372	0.76	3.20	1.12	30,345		
Mit.	73.9	27.8	55.4	0.22	0.55	12.3	12.8	0.55	4.33	4.89	29,372	0.76	3.20	1.12	30,345		
% Reduced	1%	63%	-10%	—	80%	16%	27%	79%	5%	32%	—	—	—	—	—		
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Unmit.	15.9	28.5	22.4	0.09	1.00	5.51	6.51	0.93	1.48	2.41	12,768	0.34	1.38	8.82	13,196		
Mit.	15.5	13.0	25.6	0.09	0.27	4.54	4.80	0.26	1.38	1.64	12,768	0.34	1.38	8.82	13,196		
% Reduced	2%	54%	-14%	—	73%	18%	26%	72%	7%	32%	—	—	—	—	—		
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Unmit.	2.90	5.19	4.10	0.02	0.18	1.01	1.19	0.17	0.27	0.44	2,114	0.06	0.23	1.46	2,185		
Mit.	2.83	2.38	4.68	0.02	0.05	0.83	0.88	0.05	0.25	0.30	2,114	0.06	0.23	1.46	2,185		
% Reduced	2%	54%	-14%	—	73%	18%	26%	72%	7%	32%	—	—	—	—	—		
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—		
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—		
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—		
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—		
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—		
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—		

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.87	53.7	35.5	0.19	1.83	11.1	12.9	1.72	2.79	4.51	26,633	0.65	3.17	43.1	27,637
2026	1.60	11.5	21.8	0.03	0.39	1.85	2.25	0.36	0.45	0.81	5,098	0.19	0.24	8.45	5,182
2027	1.53	10.9	21.2	0.03	0.35	1.85	2.21	0.33	0.45	0.77	5,048	0.14	0.23	7.65	5,128
2028	1.47	10.4	20.6	0.03	0.32	1.85	2.17	0.29	0.45	0.74	4,994	0.13	0.23	6.89	5,074
2029	74.9	17.3	33.4	0.05	0.54	2.36	2.90	0.50	0.57	1.07	7,089	0.20	0.26	7.46	7,178
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	5.91	74.2	50.5	0.22	2.84	14.7	17.5	2.64	4.57	7.21	29,372	0.76	3.20	1.12	30,345
2026	1.57	11.6	19.8	0.03	0.39	1.85	2.25	0.36	0.45	0.81	4,966	0.14	0.24	0.22	5,043
2027	1.50	11.0	19.3	0.03	0.35	1.85	2.21	0.33	0.45	0.77	4,919	0.14	0.23	0.20	4,992
2028	1.45	10.5	18.8	0.03	0.32	1.85	2.17	0.29	0.45	0.74	4,869	0.13	0.23	0.18	4,941
2029	74.8	17.4	31.1	0.05	0.54	2.36	2.90	0.50	0.57	1.07	6,925	0.20	0.26	0.19	7,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.31	28.5	22.4	0.09	1.00	5.51	6.51	0.93	1.48	2.41	12,768	0.34	1.38	8.82	13,196
2026	1.12	8.29	14.4	0.02	0.28	1.32	1.61	0.26	0.32	0.58	3,561	0.10	0.17	2.60	3,618
2027	1.07	7.89	14.0	0.02	0.25	1.32	1.58	0.23	0.32	0.55	3,527	0.10	0.17	2.36	3,581
2028	1.03	7.51	13.7	0.02	0.23	1.33	1.55	0.21	0.32	0.53	3,500	0.10	0.17	2.13	3,554
2029	15.9	7.47	13.7	0.02	0.22	1.20	1.43	0.21	0.29	0.50	3,301	0.09	0.14	1.69	3,346
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.42	5.19	4.10	0.02	0.18	1.01	1.19	0.17	0.27	0.44	2,114	0.06	0.23	1.46	2,185
2026	0.20	1.51	2.62	< 0.005	0.05	0.24	0.29	0.05	0.06	0.11	590	0.02	0.03	0.43	599

2027	0.20	1.44	2.55	< 0.005	0.05	0.24	0.29	0.04	0.06	0.10	584	0.02	0.03	0.39	593
2028	0.19	1.37	2.50	< 0.005	0.04	0.24	0.28	0.04	0.06	0.10	579	0.02	0.03	0.35	588
2029	2.90	1.36	2.50	< 0.005	0.04	0.22	0.26	0.04	0.05	0.09	546	0.02	0.02	0.28	554

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.20	26.8	42.3	0.19	0.55	8.72	9.27	0.55	2.56	3.10	26,633	0.65	3.17	43.1	27,637
2026	0.99	4.72	23.9	0.03	0.12	1.85	1.98	0.12	0.45	0.56	5,098	0.19	0.24	8.45	5,182
2027	0.95	4.58	23.2	0.03	0.12	1.85	1.97	0.11	0.45	0.56	5,048	0.14	0.23	7.65	5,128
2028	0.93	4.49	22.6	0.03	0.11	1.85	1.96	0.11	0.45	0.55	4,994	0.13	0.23	6.89	5,074
2029	74.0	7.57	36.1	0.05	0.20	2.36	2.56	0.19	0.57	0.76	7,089	0.20	0.26	7.46	7,178
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.27	27.8	55.4	0.22	0.55	12.3	12.8	0.55	4.33	4.89	29,372	0.76	3.20	1.12	30,345
2026	0.96	4.82	21.8	0.03	0.12	1.85	1.98	0.12	0.45	0.56	4,966	0.14	0.24	0.22	5,043
2027	0.93	4.68	21.3	0.03	0.12	1.85	1.97	0.11	0.45	0.56	4,919	0.14	0.23	0.20	4,992
2028	0.90	4.59	20.8	0.03	0.11	1.85	1.96	0.11	0.45	0.55	4,869	0.13	0.23	0.18	4,941
2029	73.9	7.68	33.8	0.05	0.20	2.36	2.56	0.19	0.57	0.76	6,925	0.20	0.26	0.19	7,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.80	13.0	25.6	0.09	0.27	4.54	4.80	0.26	1.38	1.64	12,768	0.34	1.38	8.82	13,196
2026	0.68	3.48	15.8	0.02	0.09	1.32	1.41	0.08	0.32	0.40	3,561	0.10	0.17	2.60	3,618
2027	0.66	3.38	15.4	0.02	0.08	1.32	1.41	0.08	0.32	0.40	3,527	0.10	0.17	2.36	3,581
2028	0.64	3.29	15.1	0.02	0.08	1.33	1.41	0.08	0.32	0.40	3,500	0.10	0.17	2.13	3,554

2029	15.5	3.31	15.1	0.02	0.08	1.20	1.29	0.08	0.29	0.37	3,301	0.09	0.14	1.69	3,346
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.15	2.38	4.68	0.02	0.05	0.83	0.88	0.05	0.25	0.30	2,114	0.06	0.23	1.46	2,185
2026	0.12	0.64	2.88	< 0.005	0.02	0.24	0.26	0.02	0.06	0.07	590	0.02	0.03	0.43	599
2027	0.12	0.62	2.81	< 0.005	0.02	0.24	0.26	0.01	0.06	0.07	584	0.02	0.03	0.39	593
2028	0.12	0.60	2.76	< 0.005	0.01	0.24	0.26	0.01	0.06	0.07	579	0.02	0.03	0.35	588
2029	2.83	0.60	2.75	< 0.005	0.02	0.22	0.23	0.01	0.05	0.07	546	0.02	0.02	0.28	554

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.7	8.09	98.8	0.20	0.33	18.1	18.4	0.32	4.57	4.90	25,523	20.3	0.70	50.4	26,290
Mit.	30.1	4.91	94.1	0.17	0.09	17.3	17.4	0.08	4.37	4.45	20,876	19.2	0.65	48.4	21,601
% Reduced	2%	39%	5%	13%	73%	4%	6%	75%	4%	9%	18%	5%	7%	4%	18%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.6	8.35	68.2	0.19	0.32	18.1	18.4	0.32	4.57	4.89	24,163	20.3	0.73	7.16	24,897
Mit.	28.1	5.15	64.0	0.16	0.08	17.3	17.4	0.08	4.37	4.44	19,574	19.3	0.68	7.11	20,266
% Reduced	2%	38%	6%	14%	75%	4%	6%	76%	4%	9%	19%	5%	7%	1%	19%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.5	8.47	81.9	0.19	0.33	17.7	18.0	0.32	4.47	4.79	24,000	20.3	0.73	24.7	24,750
Mit.	28.9	5.26	77.7	0.16	0.09	16.9	17.0	0.08	4.27	4.35	19,420	19.3	0.68	23.9	20,127

% Reduced	2%	38%	5%	14%	74%	4%	6%	76%	4%	9%	19%	5%	7%	3%	19%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.38	1.54	15.0	0.03	0.06	3.23	3.29	0.06	0.82	0.87	3,974	3.36	0.12	4.10	4,098
Mit.	5.27	0.96	14.2	0.03	0.02	3.09	3.10	0.01	0.78	0.79	3,215	3.19	0.11	3.96	3,332
% Reduced	2%	38%	5%	14%	74%	4%	6%	76%	4%	9%	19%	5%	7%	3%	19%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,000
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes

2.5. Operations Emissions by Sector, Unmitigated

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

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

Waste	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	571
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01	6.01
Total	28.1	5.15	64.0	0.16	0.08	17.3	17.4	0.08	4.37	4.44	19,574	19.3	0.68	7.11	20,266	20,266
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.25	5.14	64.8	0.16	0.08	16.9	17.0	0.07	4.27	4.34	16,205	0.69	0.59	17.9	16,417	16,417
Area	20.6	0.12	12.9	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	34.3	< 0.005	< 0.005	—	34.4	34.4
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	2,883	0.27	0.03	—	2,899	2,899
Water	—	—	—	—	—	—	—	—	—	—	135	1.98	0.05	—	199	199
Waste	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571	571
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01	6.01
Total	28.9	5.26	77.7	0.16	0.09	16.9	17.0	0.08	4.27	4.35	19,420	19.3	0.68	23.9	20,127	20,127
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.51	0.94	11.8	0.03	0.01	3.09	3.10	0.01	0.78	0.79	2,683	0.11	0.10	2.96	2,718	2,718
Area	3.77	0.02	2.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.68	< 0.005	< 0.005	—	5.70	5.70
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	477	0.05	0.01	—	480	480
Water	—	—	—	—	—	—	—	—	—	—	22.4	0.33	0.01	—	33.0	33.0
Waste	—	—	—	—	—	—	—	—	—	—	27.0	2.70	0.00	—	94.6	94.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00	1.00
Total	5.27	0.96	14.2	0.03	0.02	3.09	3.10	0.01	0.78	0.79	3,215	3.19	0.11	3.96	3,332	3,332

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

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

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

[illegible]

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.31	0.00	0.00	0.29	0.29	0.00	0.07	0.07	0.01	0.01	0.01	0.03	292	0.01	0.01	0.03	295	
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	0.00	0.00
Hauling	0.30	22.9	5.44	0.13	0.38	5.19	5.19	0.38	1.45	1.83	0.37	19,754	3.11	1.09	20,690					
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	< 0.005	32.4	< 0.005	0.06					32.8	
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	0.00	0.00
Hauling	0.03	2.53	0.59	0.01	0.04	0.57	0.57	0.04	0.16	0.20	0.04	2,164	0.34	1.98	2,269					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	5.36	< 0.005	0.01	5.43					
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	0.00	0.00
Hauling	0.01	0.46	0.11	< 0.005	0.01	0.10	0.10	0.01	0.03	0.04	0.01	358	0.06	0.33	376					

3.2. Site Preparation (2025) - Mitigated

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

Location	ROG	NOX	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	4.57	48.6	0.09	0.18	—	0.18	0.18	—	0.18	9,317	0.38	0.08	—	9,349
Dust From Material Movement	—	—	—	—	—	6.25	6.25	—	2.75	2.75	—	—	—	—	—

Onsite truck	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	0.57	0.57	0.57	0.06	0.06	9.97	< 0.005	< 0.005	< 0.005	< 0.005	10.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.50	5.32	0.01	0.02	0.02	0.02	—	0.02	—	0.02	1,021	0.04	0.01	—	1,024	
Dust From Material Movement	—	—	—	—	—	0.68	0.68	0.68	0.30	0.30	0.30	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06	0.06	0.06	0.01	0.01	0.01	1.09	< 0.005	< 0.005	< 0.005	1.14	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.09	0.97	< 0.005	< 0.005	—	< 0.005	—	—	—	< 0.005	169	0.01	< 0.005	—	170	
Dust From Material Movement	—	—	—	—	—	0.12	0.12	0.12	0.06	0.06	0.06	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005	0.18	< 0.005	< 0.005	< 0.005	0.19	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.31	0.00	0.00	0.29	0.29	0.29	0.07	0.07	0.07	292	0.01	0.01	0.03	295	
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	0.30	22.9	5.44	0.13	0.38	5.19	5.19	5.56	1.45	1.83	1.83	19,754	0.37	3.11	1.09	20,690	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.03	0.01	0.01	0.01	32.4	< 0.005	< 0.005	0.06	32.8	
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	0.03	2.53	0.59	0.01	0.04	0.57	0.61	0.04	0.16	0.20	2,164	0.04	0.34	1.98	2,269
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.36	< 0.005	< 0.005	0.01	5.43
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
Hauling	0.01	0.46	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	358	0.01	0.06	0.33	376

3.3. Grading (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	31.7	28.6	0.06	1.46	—	1.46	1.34	—	1.34	6,597	0.27	0.05	—	6,620
Dust From Material Movement	—	—	—	—	—	2.70	2.70	—	0.98	0.98	—	—	—	—	—
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	2.94	2.94	< 0.005	0.29	0.29	9.89	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	31.7	28.6	0.06	1.46	—	1.46	1.34	—	1.34	6,597	0.27	0.05	—	6,620
Dust From Material Movement	—	—	—	—	—	2.70	2.70	—	0.98	0.98	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.02	< 0.005	< 0.005	2.94	2.94	< 0.005	0.29	0.29	9.97	< 0.005	< 0.005	< 0.005	10.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.05	9.56	8.62	0.02	0.44	—	0.44	0.40	—	0.40	1,988	0.08	0.02	—	1,995
Dust From Material Movement	—	—	—	—	0.81	0.81	0.81	0.30	0.30	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	0.89	0.89	0.89	< 0.005	0.09	0.09	2.99	< 0.005	< 0.005	< 0.005	3.14
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.74	1.57	< 0.005	0.08	—	0.08	0.07	—	0.07	329	0.01	< 0.005	—	330
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.05	0.05	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	0.16	0.16	0.16	< 0.005	0.02	0.02	0.50	< 0.005	< 0.005	< 0.005	0.52
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	1.54	0.00	0.00	0.26	0.26	0.00	0.06	0.06	282	0.01	0.01	1.04	286
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
Hauling	0.32	21.9	5.35	0.13	0.38	5.19	5.56	0.38	1.45	1.83	19,744	0.37	3.11	42.1	20,721
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.17	0.00	0.00	0.26	0.26	0.00	0.06	0.06	259	0.01	0.01	0.03	262
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
Hauling	0.30	22.9	5.44	0.13	0.38	5.19	5.56	0.38	1.45	1.83	19,754	0.37	3.11	1.09	20,690
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.08	0.08	0.00	0.02	0.02	79.1	< 0.005	< 0.005	0.13	80.2
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

Hauling	0.09	6.97	1.62	0.04	0.11	1.56	1.68	0.11	0.44	0.55	5,951	0.11	0.94	5.44	6,239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	13.1	< 0.005	< 0.005	0.02	13.3
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
Hauling	0.02	1.27	0.30	0.01	0.02	0.29	0.31	0.02	0.08	0.10	985	0.02	0.16	0.90	1,033

3.4. Grading (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	4.76	35.4	0.06	0.17	—	0.17	0.17	—	0.17	6,597	0.27	0.05	—	6,620
Dust From Material Movement	—	—	—	—	—	2.70	2.70	—	0.98	0.98	—	—	—	—	—
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	9.89	< 0.005	< 0.005	0.01	10.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	4.76	35.4	0.06	0.17	—	0.17	0.17	—	0.17	6,597	0.27	0.05	—	6,620
Dust From Material Movement	—	—	—	—	—	2.70	2.70	—	0.98	0.98	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.02	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	9.97	< 0.005	< 0.005	< 0.005	10.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.24	1.44	10.7	0.02	0.05	—	0.05	—	0.05	—	1,988	0.08	0.02	—	1,995
Dust From Material Movement	—	—	—	—	—	0.81	0.81	—	0.30	0.30	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.17	0.17	< 0.005	0.02	0.02	2.99	< 0.005	< 0.005	< 0.005	3.14
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.26	1.95	< 0.005	0.01	—	0.01	0.01	—	0.01	329	0.01	< 0.005	—	330
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.05	0.05	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	0.50	< 0.005	< 0.005	< 0.005	0.52
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	1.54	0.00	0.00	0.26	0.26	0.00	0.06	0.06	282	0.01	0.01	1.04	286
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
Hauling	0.32	21.9	5.35	0.13	0.38	5.19	5.19	0.38	1.45	1.83	19,744	0.37	3.11	42.1	20,721
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.17	0.00	0.00	0.26	0.26	0.00	0.06	0.06	259	0.01	0.01	0.03	262
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
Hauling	0.30	22.9	5.44	0.13	0.38	5.19	5.19	0.38	1.45	1.83	19,754	0.37	3.11	1.09	20,690
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.08	0.08	0.00	0.02	0.02	79.1	< 0.005	< 0.005	0.13	80.2
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

Hauling	0.09	6.97	1.62	0.04	0.11	1.56	1.68	0.11	0.44	0.55	5,951	0.11	0.94	5.44	6,239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	13.1	< 0.005	< 0.005	0.02	13.3
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
Hauling	0.02	1.27	0.30	0.01	0.02	0.29	0.31	0.02	0.08	0.10	985	0.02	0.16	0.90	1,033

3.5. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	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	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	3.17	3.96	0.01	0.13	—	0.13	0.12	—	0.12	727	0.03	0.01	—	730
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.58	0.72	< 0.005	0.02	—	0.02	0.02	—	0.02	120	< 0.005	< 0.005	—	121
Onsite truck	0.00	0.00	0.00	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	0.53	0.52	9.17	0.00	0.00	1.55	1.55	0.00	0.36	0.36	1.674	0.07	0.06	6.15	1,700
Vendor	0.02	1.18	0.37	0.01	0.02	0.30	0.30	0.02	0.08	0.10	1.079	0.02	0.16	3.06	1,132
Hauling	0.00	0.00	0.00	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	0.50	0.57	6.93	0.00	0.00	1.55	1.55	0.00	0.36	0.36	1.539	0.07	0.06	0.16	1,559
Vendor	0.02	1.24	0.38	0.01	0.02	0.30	0.30	0.02	0.08	0.10	1.080	0.02	0.16	0.08	1,130
Hauling	0.00	0.00	0.00	0.00	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	0.15	0.19	2.22	0.00	0.00	0.47	0.47	0.00	0.11	0.11	473	0.02	0.02	0.80	480
Vendor	0.01	0.38	0.11	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	327	0.01	0.05	0.40	343
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.02	0.02	78.3	< 0.005	< 0.005	0.13	79.4
Vendor	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	54.2	< 0.005	0.01	0.07	56.8
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

3.6. Building Construction (2025) - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.57	6.93	0.00	0.00	1.55	1.55	1.55	1.55	0.00	0.36	0.36	1.539	0.07	0.06	0.16	1,559	1,559	1,559	1,559
Vendor	0.02	1.24	0.38	0.01	0.02	0.30	0.30	0.30	0.30	0.02	0.10	0.08	1,080	0.02	0.16	0.08	1,130	1,130	1,130	1,130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.19	2.22	0.00	0.00	0.47	0.47	0.47	0.47	0.00	0.11	0.11	473	0.02	0.02	0.80	480	480	480	480
Vendor	0.01	0.38	0.11	< 0.005	< 0.005	0.09	0.09	0.09	0.10	< 0.005	0.03	0.03	327	0.01	0.05	0.40	343	343	343	343
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.41	0.00	0.00	0.09	0.09	0.09	0.09	0.00	0.02	0.02	78.3	< 0.005	< 0.005	0.13	79.4	79.4	79.4	79.4
Vendor	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	0.02	0.02	< 0.005	0.01	< 0.005	54.2	< 0.005	0.01	0.07	56.8	56.8	56.8	56.8
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	0.00	0.00	0.00

3.7. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	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	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	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	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	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	0.50	0.47	8.53	0.00	0.00	1.55	1.55	0.00	0.36	0.36	1,638	0.07	0.06	5.55	1,662
Vendor	0.02	1.13	0.35	0.01	0.02	0.30	0.32	0.02	0.08	0.10	1,062	0.02	0.16	2.90	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.52	6.47	0.00	0.00	1.55	1.55	0.00	0.36	0.36	1,507	0.02	0.06	0.14	1,525
Vendor	0.02	1.18	0.36	0.01	0.02	0.30	0.32	0.02	0.08	0.10	1,063	0.02	0.16	0.08	1,112
Hauling	0.00	0.00	0.00	0.00	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	0.34	0.41	4.83	0.00	0.00	1.11	1.11	0.00	0.26	0.26	1,090	0.02	0.04	1.71	1,104
Vendor	0.02	0.85	0.25	0.01	0.01	0.22	0.23	0.01	0.06	0.07	759	0.02	0.12	0.89	795

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	180	< 0.005	0.01	0.28	183	0.00	0.00
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	126	< 0.005	0.02	0.15	132	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

3.8. Building Construction (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	3.12	15.0	0.02	0.11	—	0.11	0.10	—	0.10	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	3.12	15.0	0.02	0.11	—	0.11	0.10	—	0.10	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	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	0.33	2.23	10.7	0.02	0.08	—	0.08	0.07	—	0.07	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.41	1.95	< 0.005	0.01	—	0.01	0.01	0.01	—	0.01	0.01	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.50	0.47	8.53	0.00	0.00	1.55	1.55	1.55	0.00	0.36	0.36	0.36	1.638	0.07	0.06	5.55	1.662
Vendor	0.02	1.13	0.35	0.01	0.02	0.30	0.30	0.32	0.02	0.10	0.08	0.08	1.062	0.02	0.16	2.90	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.52	6.47	0.00	0.00	1.55	1.55	1.55	0.00	0.36	0.36	0.36	1,507	0.02	0.06	0.14	1,525
Vendor	0.02	1.18	0.36	0.01	0.02	0.30	0.30	0.32	0.02	0.10	0.08	0.08	1,063	0.02	0.16	0.08	1,112
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.34	0.41	4.83	0.00	0.00	1.11	1.11	1.11	0.00	0.26	0.26	0.26	1,090	0.02	0.04	1.71	1,104
Vendor	0.02	0.85	0.25	0.01	0.01	0.22	0.22	0.23	0.01	0.07	0.06	0.06	759	0.02	0.12	0.89	795
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.20	0.00	0.05	0.05	0.05	180	< 0.005	0.01	0.28	183
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	0.01	0.01	0.01	126	< 0.005	0.02	0.15	132
Hauling	0.00	0.00	0.00	0.00	0.00	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. Building Construction (2027) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.47	5.96	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.36	0.36	0.36	1,479	0.02	0.06	0.13	1,496	0.00	0.00
Vendor	0.02	1.14	0.35	0.01	0.02	0.30	0.30	0.30	0.02	0.02	0.10	0.08	0.08	1,043	0.02	0.16	0.07	1,090	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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.37	4.47	0.00	0.00	1.11	1.11	1.11	0.00	0.00	0.26	0.26	0.26	1,070	0.01	0.04	1.54	1,084	0.00	0.00
Vendor	0.02	0.81	0.25	0.01	0.01	0.22	0.22	0.22	0.01	0.01	0.07	0.06	0.06	745	0.02	0.11	0.82	779	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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.20	0.00	0.00	0.05	0.05	0.05	177	< 0.005	0.01	0.25	179	0.00	0.00
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	< 0.005	0.01	0.01	0.01	123	< 0.005	0.02	0.14	129	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	0.00	0.00

3.10. Building Construction (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	3.08	15.0	0.02	0.10	—	0.10	0.09	—	0.09	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	3.08	15.0	0.02	0.10	—	0.09	—	0.09	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	0.32	2.20	10.7	0.02	0.07	—	0.07	—	0.07	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.40	1.95	< 0.005	0.01	—	0.01	—	0.01	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	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	0.48	0.41	7.89	0.00	0.00	1.55	0.00	0.36	0.36	1,608	0.02	0.06	5.00	1,630
Vendor	0.02	1.09	0.34	0.01	0.02	0.30	0.02	0.08	0.10	1,042	0.02	0.16	2.65	1,092
Hauling	0.00	0.00	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	0.45	0.47	5.96	0.00	0.00	1.55	0.00	0.36	0.36	1,479	0.02	0.06	0.13	1,496
Vendor	0.02	1.14	0.35	0.01	0.02	0.30	0.02	0.08	0.10	1,043	0.02	0.16	0.07	1,090
Hauling	0.00	0.00	0.00	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	0.32	0.37	4.47	0.00	0.00	1.11	0.00	0.26	0.26	1,070	0.01	0.04	1.54	1,084
Vendor	0.02	0.81	0.25	0.01	0.01	0.22	0.23	0.06	0.07	745	0.02	0.11	0.82	779

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	177	< 0.005	0.01	0.25	179	0.00	0.00
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	123	< 0.005	0.02	0.14	129	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

3.11. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	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	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.39	9.26	0.02	0.22	—	0.22	0.20	—	0.20	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.13	1.17	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	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	0.46	0.41	7.35	0.00	0.00	1.55	1.55	1.55	0.00	0.00	1,578	0.02	0.06	4.48	1,600
Vendor	0.02	1.04	0.33	0.01	0.02	0.30	0.30	0.32	0.02	0.08	1,019	0.02	0.16	2.42	1,068
Hauling	0.00	0.00	0.00	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	0.43	0.46	5.56	0.00	0.00	1.55	1.55	1.55	0.00	0.36	1,452	0.02	0.06	0.12	1,469
Vendor	0.02	1.09	0.34	0.01	0.02	0.30	0.30	0.32	0.02	0.10	1,020	0.02	0.16	0.06	1,067
Hauling	0.00	0.00	0.00	0.00	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	0.31	0.33	4.20	0.00	0.00	1.11	1.11	1.11	0.00	0.26	1,053	0.02	0.04	1.38	1,067
Vendor	0.02	0.78	0.24	0.01	0.01	0.22	0.22	0.23	0.01	0.06	730	0.01	0.11	0.75	764
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.77	0.00	0.00	0.20	0.20	0.20	0.00	0.05	174	< 0.005	0.01	0.23	177
Vendor	< 0.005	0.14	0.04	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	0.01	121	< 0.005	0.02	0.12	127
Hauling	0.00	0.00	0.00	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. Building Construction (2028) - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.46	5.56	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.36	0.36	0.36	1,452	0.02	0.06	0.12	1,469	0.12	1,469
Vendor	0.02	1.09	0.34	0.01	0.02	0.30	0.30	0.30	0.02	0.02	0.10	0.08	0.10	1,020	0.02	0.16	0.06	1,067	0.06	1,067
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.31	0.33	4.20	0.00	0.00	1.11	1.11	1.11	0.00	0.00	0.26	0.26	0.26	1,053	0.02	0.04	1.38	1,067	1.38	1,067
Vendor	0.02	0.78	0.24	0.01	0.01	0.22	0.22	0.22	0.01	0.01	0.07	0.06	0.07	730	0.01	0.11	0.75	764	0.11	764
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.77	0.00	0.00	0.20	0.20	0.20	0.00	0.00	0.05	0.05	0.05	174	< 0.005	0.01	0.23	177	0.01	177
Vendor	< 0.005	0.14	0.04	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	< 0.005	0.01	0.01	0.01	121	< 0.005	0.02	0.12	127	0.02	127
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	0.97	8.58	12.9	0.02	0.28	0.25	—	0.25	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	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	0.57	5.09	7.65	0.01	0.16	0.15	—	0.15	1,421	0.06	0.01	—	1,426
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.93	1.40	< 0.005	0.03	0.03	—	0.03	235	0.01	< 0.005	—	236
Onsite truck	0.00	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	0.44	0.36	6.87	0.00	0.00	0.00	1.55	0.00	1,550	0.02	0.06	4.00	1,571
Vendor	0.02	1.00	0.33	0.01	0.02	0.02	0.30	0.02	992	0.02	0.15	2.16	1,039
Hauling	0.00	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	0.37	0.41	5.16	0.00	0.00	0.00	1.55	0.00	1,426	0.02	0.06	0.10	1,443
Vendor	0.02	1.04	0.33	0.01	0.02	0.02	0.30	0.02	993	0.02	0.15	0.06	1,038
Hauling	0.00	0.00	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	0.22	0.24	3.24	0.00	0.00	0.00	0.92	0.00	856	0.01	0.03	1.02	867
Vendor	0.01	0.62	0.20	< 0.005	0.01	0.01	0.18	0.01	589	0.01	0.09	0.55	616

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.59	0.00	0.00	0.17	0.17	0.00	0.04	0.04	142	< 0.005	0.01	0.17	0.09	144	102
Vendor	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	97.4	< 0.005	0.01	0.09	0.09	102	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

3.14. Building Construction (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	3.02	14.9	0.02	0.09	—	0.09	0.09	—	0.09	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	0.44	3.02	14.9	0.02	0.09	—	0.09	0.09	—	0.09	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	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	0.26	1.79	8.85	0.01	0.05	—	0.05	0.05	—	0.05	1,421	0.06	0.01	—	1,426
Onsite truck	0.00	0.00	0.00	0.00	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	0.05	0.33	1.62	< 0.005	0.01	—	0.01	0.01	0.01	—	0.01	235	0.01	< 0.005	—	236
Onsite truck	0.00	0.00	0.00	0.00	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	0.44	0.36	6.87	0.00	0.00	1.55	1.55	1.55	0.00	0.36	0.36	1.550	0.02	0.06	4.00	1,571
Vendor	0.02	1.00	0.33	0.01	0.02	0.30	0.30	0.32	0.02	0.10	0.08	992	0.02	0.15	2.16	1,039
Hauling	0.00	0.00	0.00	0.00	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	0.37	0.41	5.16	0.00	0.00	1.55	1.55	1.55	0.00	0.36	0.36	1,426	0.02	0.06	0.10	1,443
Vendor	0.02	1.04	0.33	0.01	0.02	0.30	0.30	0.32	0.02	0.10	0.08	993	0.02	0.15	0.06	1,038
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.22	0.24	3.24	0.00	0.00	0.92	0.92	0.92	0.00	0.22	0.22	856	0.01	0.03	1.02	867
Vendor	0.01	0.62	0.20	< 0.005	0.01	0.18	0.18	0.19	0.01	0.06	0.05	589	0.01	0.09	0.55	616
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.59	0.00	0.00	0.17	0.17	0.17	0.00	0.04	0.04	142	< 0.005	0.01	0.17	144
Vendor	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.03	0.03	< 0.005	0.01	0.01	97.4	< 0.005	0.01	0.09	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

3.15. Paving (2029) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.87	0.00	0.00	0.20	0.20	0.00	0.05	0.05	196	< 0.005	0.01	0.50	198					
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					
Hauling	0.00	0.00	0.00	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	0.05	0.05	0.65	0.00	0.00	0.20	0.20	0.00	0.05	0.05	180	< 0.005	0.01	0.01	182					
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					
Hauling	0.00	0.00	0.00	0.00	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	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	37.5	< 0.005	< 0.005	0.04	38.0					
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					
Hauling	0.00	0.00	0.00	0.00	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.20	< 0.005	< 0.005	0.01	6.28					
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					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

3.16. Paving (2029) - Mitigated

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

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

Off-Road Equipment	0.35	2.29	10.6	0.01	0.08	0.08	0.08	0.08	—	0.08	—	0.08	1.511	0.06	0.01	—	1,516
Paving	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.35	2.29	10.6	0.01	0.08	0.08	0.08	0.08	—	0.08	—	0.08	1.511	0.06	0.01	—	1,516
Paving	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	0.47	2.18	< 0.005	0.02	0.02	0.02	0.02	—	0.02	—	0.02	310	0.01	< 0.005	—	311
Paving	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.40	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	< 0.005	51.4	< 0.005	< 0.005	—	51.6
Paving	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.87	0.00	0.00	0.20	0.20	0.00	0.05	0.00	0.05	0.05	196	< 0.005	0.01	0.50	198
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	0.05	0.05	0.65	0.00	0.00	0.20	0.20	0.00	0.05	0.05	0.05	180	< 0.005	0.01	0.01	0.01	182
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	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	37.5	< 0.005	< 0.005	0.04	0.04	38.0
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	6.20	< 0.005	< 0.005	0.01	0.01	6.28
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

3.17. Architectural Coating (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	—	0.01	134	0.01	< 0.005	—	134
Architectural Coatings	72.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	0.01	—	0.01	0.01	0.01	134	0.01	< 0.005	—	134	0.00	0.00	134
Architectural Coatings	72.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	27.4	< 0.005	< 0.005	—	27.5	0.00	0.00	27.5
Architectural Coatings	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	4.54	< 0.005	< 0.005	—	4.56	0.00	0.00	4.56
Architectural Coatings	2.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	1.37	0.00	0.00	0.31	0.31	0.31	0.00	0.07	0.07	0.07	0.07	310	< 0.005	0.01	0.80	314	0.00	0.00	314

[illegible]

3.18. Architectural Coating (2029) - Mitigated

[illegible]

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	< 0.005	—	134
Architectural Coatings	72.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.23	< 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	—	27.5
Architectural Coatings	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.04	< 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	—	4.56
Architectural Coatings	2.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	1.37	0.00	0.00	0.31	0.31	0.31	0.31	0.00	0.07	0.07	0.07	0.07	0.07	0.01	0.80	314	0.00	0.00	0.00	314

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	0.07	0.08	1.03	0.00	0.00	0.00	0.31	0.00	0.07	0.07	0.07	285	< 0.005	0.01	0.02	289	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	0.02	0.02	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	0.01	59.3	< 0.005	< 0.005	0.07	60.1	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	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	9.82	< 0.005	< 0.005	0.01	9.95	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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

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

Single Family Housing	9.36	4.95	78.8	0.18	0.08	18.1	18.2	0.08	4.57	4.65	18,462	0.70	0.60	44.4	18,702
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	9.36	4.95	78.8	0.18	0.08	18.1	18.2	0.08	4.57	4.65	18,462	0.70	0.60	44.4	18,702
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	8.93	5.39	67.0	0.17	0.08	18.1	18.2	0.08	4.57	4.65	17,152	0.74	0.63	1.15	17,359
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.93	5.39	67.0	0.17	0.08	18.1	18.2	0.08	4.57	4.65	17,152	0.74	0.63	1.15	17,359
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.58	0.98	12.4	0.03	0.02	3.23	3.24	0.01	0.82	0.83	2,807	0.12	0.10	3.10	2,844
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.58	0.98	12.4	0.03	0.02	3.23	3.24	0.01	0.82	0.83	2,807	0.12	0.10	3.10	2,844

4.1.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	8.95	4.73	75.3	0.17	0.08	17.3	17.4	0.07	4.37	4.44	17,645	0.67	0.57	42.4	17,875					
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Total	8.95	4.73	75.3	0.17	0.08	17.3	17.4	0.07	4.37	4.44	17,645	0.67	0.57	42.4	17,875					
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Single Family Housing	8.54	5.15	64.0	0.16	0.08	17.3	17.4	0.08	4.37	4.44	16,393	0.70	0.60	1.10	16,591					
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Total	8.54	5.15	64.0	0.16	0.08	17.3	17.4	0.08	4.37	4.44	16,393	0.70	0.60	1.10	16,591					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Single Family Housing	1.51	0.94	11.8	0.03	0.01	3.09	3.10	0.01	0.78	0.79	2,683	0.11	0.10	2.96	2,718					
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Total	1.51	0.94	11.8	0.03	0.01	3.09	3.10	0.01	0.78	0.79	2,683	0.11	0.10	2.96	2,718					

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,923	0.28	0.03	—	2,940
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,923	0.28	0.03	—	2,940
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,923	0.28	0.03	—	2,940
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,923	0.28	0.03	—	2,940
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	484	0.05	0.01	—	487
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,883	0.27	0.03	—	2,899
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,883	0.27	0.03	—	2,899
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,883	0.27	0.03	—	2,899
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,883	0.27	0.03	—	2,899
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	477	0.05	0.01	—	480
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	477	0.05	0.01	—	—	480

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.17	2.96	1.26	0.02	0.24	—	0.24	0.24	—	0.24	3,761	0.33	0.01	—	3,772
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.17	2.96	1.26	0.02	0.24	—	0.24	0.24	—	0.24	3,761	0.33	0.01	—	3,772
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.17	2.96	1.26	0.02	0.24	—	0.24	0.24	—	0.24	3,761	0.33	0.01	—	3,772
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.17	2.96	1.26	0.02	0.24	—	0.24	0.24	—	0.24	3,761	0.33	0.01	—	3,772
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	0.03	0.54	0.23	< 0.005	0.04	—	0.04	—	0.04	623	0.06	< 0.005	—	624
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.54	0.23	< 0.005	0.04	—	0.04	—	0.04	623	0.06	< 0.005	—	624

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.62	0.18	18.8	< 0.005	0.01	—	0.01	0.01	—	0.01	50.1	< 0.005	< 0.005	—	50.2
Total	21.2	0.18	18.8	< 0.005	0.01	—	0.01	0.01	—	0.01	50.1	< 0.005	< 0.005	—	50.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	19.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	3.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.20	0.02	2.35	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	5.68	< 0.005	< 0.005	< 0.005	—	5.70	—
Total	3.77	0.02	2.35	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	5.68	< 0.005	< 0.005	< 0.005	—	5.70	—

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.62	0.18	18.8	< 0.005	0.01	—	0.01	0.01	—	0.01	50.1	< 0.005	< 0.005	—	50.2
Total	21.2	0.18	18.8	< 0.005	0.01	—	0.01	0.01	—	0.01	50.1	< 0.005	< 0.005	—	50.2

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	19.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	3.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.20	0.02	2.35	< 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	< 0.005	< 0.005	5.70
Total	3.77	0.02	2.35	< 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	< 0.005	< 0.005	5.70

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	142	2.65	0.06	—	227

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	13.3	< 0.005	< 0.005	< 0.005	—	13.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	8.62	< 0.005	< 0.005	< 0.005	—	8.67
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	164	2.65	0.06	—	—	249
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	142	2.65	0.06	—	—	227
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	13.3	< 0.005	< 0.005	< 0.005	—	13.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	8.62	< 0.005	< 0.005	< 0.005	—	8.67
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	164	2.65	0.06	—	—	249
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	23.4	0.44	0.01	—	—	37.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	2.20	< 0.005	< 0.005	< 0.005	—	2.21
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	1.43	< 0.005	< 0.005	< 0.005	—	1.44
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	27.1	0.44	0.01	—	—	41.2

4.4.2. Mitigated

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	27.0	2.69	0.00	—	94.3
City Park	—	—	—	—	—	—	—	—	—	—	0.07	0.01	0.00	—	0.24
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	27.0	2.70	0.00	—	94.6

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	27.0	2.69	0.00	—	94.3
City Park	—	—	—	—	—	—	—	—	—	—	0.07	0.01	0.00	—	0.24
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2025	2/25/2025	5.00	40.0	—
Grading	Grading	2/26/2025	7/29/2025	5.00	110	—
Building Construction	Building Construction	7/30/2025	10/30/2029	5.00	1,110	—
Paving	Paving	7/18/2029	10/30/2029	5.00	75.0	—
Architectural Coating	Architectural Coating	7/18/2029	10/30/2029	5.00	75.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Site Preparation	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40

Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
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
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Tier 4 Final	4.00	8.00	87.0	0.43
Site Preparation	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Crawler Tractors	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
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
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	287	20.0	HHDT
Site Preparation	Onsite truck	2.00	1.00	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	287	20.0	HHDT
Grading	Onsite truck	2.00	1.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	35.3	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	287	20.0	HHDT
Site Preparation	Onsite truck	2.00	1.00	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	287	20.0	HHDT
Grading	Onsite truck	2.00	1.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	35.3	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	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	1,699,587	566,529	600	200	32,409

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	91,677	—	60.0	0.00	—
Grading	252,113	—	330	0.00	—
Paving	0.00	0.00	0.00	0.00	16.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	3.64	0%
City Park	0.00	0%
Other Asphalt Surfaces	12.4	100%

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	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005
2029	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	3,115	3,148	2,822	1,123,454	25,622	25,894	23,207	9,240,353
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	2,977	3,009	2,697	1,073,751	24,489	24,748	22,180	8,831,543
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	330
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)

Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	330
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1699586.5499999998	566,529	600	200	32,409

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	3,081,950	346	0.0330	0.0040	11,736,224
City Park	0.00	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	3,039,213	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	13,422,346	5,807,811
City Park	0.00	2,639,905
Other Asphalt Surfaces	0.00	1,712,877

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Single Family Housing	10,043,941	5,807,811
City Park	0.00	2,639,905
Other Asphalt Surfaces	0.00	1,712,877

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	302	—
City Park	0.77	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	302	—
City Park	0.77	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	2.60	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	9.89	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	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	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	0	0	0	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	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
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	1	1	1	2

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	91.1
AQ-PM	47.8
AQ-DPM	49.9
Drinking Water	10.2
Lead Risk Housing	13.3
Pesticides	68.3
Toxic Releases	20.4
Traffic	12.1
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	22.1
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	70.6
Sensitive Population	—
Asthma	28.6
Cardio-vascular	68.2

Low Birth Weights	48.3
Socioeconomic Factor Indicators	—
Education	62.4
Housing	34.2
Linguistic	30.0
Poverty	49.5
Unemployment	59.4

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	84.44758116
Employed	54.30514564
Median HI	78.3908636
Education	—
Bachelor's or higher	45.32272552
High school enrollment	12.79353266
Preschool enrollment	46.22096753
Transportation	—
Auto Access	78.96830489
Active commuting	16.41216476
Social	—
2-parent households	77.08199666
Voting	50.00641601
Neighborhood	—
Alcohol availability	73.91248556

Park access	4.889002951
Retail density	11.98511485
Supermarket access	2.399589375
Tree canopy	2.527909663
Housing	—
Homeownership	95.48312588
Housing habitability	95.41896574
Low-inc homeowner severe housing cost burden	90.82509945
Low-inc renter severe housing cost burden	91.77466958
Uncrowded housing	46.83690491
Health Outcomes	—
Insured adults	68.18940074
Arthritis	78.8
Asthma ER Admissions	74.8
High Blood Pressure	84.3
Cancer (excluding skin)	63.4
Asthma	40.2
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	71.2
Diagnosed Diabetes	88.2
Life Expectancy at Birth	11.4
Cognitively Disabled	76.7
Physically Disabled	34.8
Heart Attack ER Admissions	22.6
Mental Health Not Good	47.3
Chronic Kidney Disease	90.3
Obesity	39.8

Pedestrian Injuries	19.6
Physical Health Not Good	68.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	5.9
Current Smoker	34.1
No Leisure Time for Physical Activity	63.5
Climate Change Exposures	—
Wildfire Risk	3.3
SLR Inundation Area	0.0
Children	19.0
Elderly	53.8
English Speaking	86.0
Foreign-born	17.7
Outdoor Workers	60.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.5
Traffic Density	7.8
Traffic Access	23.0
Other Indices	—
Hardship	46.0
Other Decision Support	—
2016 Voting	64.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	36.0

Healthy Places Index Score for Project Location (b)	60.0
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	Total disturbed area 51.2 acres. Total landscaped area set to 20% of total area of each land use
Construction: Construction Phases	No Demolition
Operations: Vehicle Data	No trips generated from City Park
Operations: Hearths	No woodstoves or fireplaces
Construction: Off-Road Equipment	For Site Preparation and Grading Tractor/Loader/Backhoe changed to Crawler Tractors. Two Scrapers added to Site Preparation Phase
Construction: Dust From Material Movement	Total Import 343,790 cubic yards, spread proportionally between Site Prep and Grading
Operations: Fleet Mix	Vehicle Mix adjusted so that all truck trips equate to 1.8 percent of daily truck trips
Characteristics: Project Details	Changed from Rural to Suburban since the project fits definition of Suburb with Single-Family Homes from Table C-12 of CalEEMod User Guide

APPENDIX B

CalEEMod Model General Plan Buildout Year 2035 Printouts

Menifee TTM No. 38625 Year 2035 Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Menifee TTM No. 38625 Year 2035
Construction Start Date	9/2/2024
Operational Year	2035
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	0.20
Location	33.70580620415252, -117.13908424098275
County	Riverside-South Coast
City	Menifee
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6831
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.19

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

Single Family Housing	330	Dwelling Unit	30.2	839,302	299,693	—	1,066	—
City Park	9.00	Acre	8.60	0.00	74,923	74,923	—	—
Other Asphalt Surfaces	12.0	Acre	12.4	0.00	108,029	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-1	Increase Residential Density
Energy	E-1	Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards
Energy	E-15	Require All-Electric Development
Water	W-4	Require Low-Flow Water Fixtures

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	74.9	53.7	35.5	0.19	1.83	11.1	12.9	1.72	2.79	4.51	26,633	0.65	3.17	43.1	27,637
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	74.8	74.2	50.5	0.22	2.84	14.7	17.5	2.64	4.57	7.21	29,372	0.76	3.20	1.12	30,345
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	15.9	28.5	22.4	0.09	1.00	5.51	6.51	0.93	1.48	2.41	12,768	0.34	1.38	8.82	13,196
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.90	5.19	4.10	0.02	0.18	1.01	1.19	0.17	0.27	0.44	2,114	0.06	0.23	1.46	2,185
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.87	53.7	35.5	0.19	1.83	11.1	12.9	1.72	2.79	4.51	26,633	0.65	3.17	43.1	27,637
2026	1.60	11.5	21.8	0.03	0.39	1.85	2.25	0.36	0.45	0.81	5,098	0.19	0.24	8.45	5,182
2027	1.53	10.9	21.2	0.03	0.35	1.85	2.21	0.33	0.45	0.77	5,048	0.14	0.23	7.65	5,128
2028	1.47	10.4	20.6	0.03	0.32	1.85	2.17	0.29	0.45	0.74	4,994	0.13	0.23	6.89	5,074
2029	74.9	17.3	33.4	0.05	0.54	2.36	2.90	0.50	0.57	1.07	7,089	0.20	0.26	7.46	7,178
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	5.91	74.2	50.5	0.22	2.84	14.7	17.5	2.64	4.57	7.21	29,372	0.76	3.20	1.12	30,345
2026	1.57	11.6	19.8	0.03	0.39	1.85	2.25	0.36	0.45	0.81	4,966	0.14	0.24	0.22	5,043

2027	1.50	11.0	19.3	0.03	0.35	1.85	2.21	0.33	0.45	0.77	4,919	0.14	0.23	0.20	4,992
2028	1.45	10.5	18.8	0.03	0.32	1.85	2.17	0.29	0.45	0.74	4,869	0.13	0.23	0.18	4,941
2029	74.8	17.4	31.1	0.05	0.54	2.36	2.90	0.50	0.57	1.07	6,925	0.20	0.26	0.19	7,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.31	28.5	22.4	0.09	1.00	5.51	6.51	0.93	1.48	2.41	12,768	0.34	1.38	8.82	13,196
2026	1.12	8.29	14.4	0.02	0.28	1.32	1.61	0.26	0.32	0.58	3,561	0.10	0.17	2.60	3,618
2027	1.07	7.89	14.0	0.02	0.25	1.32	1.58	0.23	0.32	0.55	3,527	0.10	0.17	2.36	3,581
2028	1.03	7.51	13.7	0.02	0.23	1.33	1.55	0.21	0.32	0.53	3,500	0.10	0.17	2.13	3,554
2029	15.9	7.47	13.7	0.02	0.22	1.20	1.43	0.21	0.29	0.50	3,301	0.09	0.14	1.69	3,346
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.42	5.19	4.10	0.02	0.18	1.01	1.19	0.17	0.27	0.44	2,114	0.06	0.23	1.46	2,185
2026	0.20	1.51	2.62	< 0.005	0.05	0.24	0.29	0.05	0.06	0.11	590	0.02	0.03	0.43	599
2027	0.20	1.44	2.55	< 0.005	0.05	0.24	0.29	0.04	0.06	0.10	584	0.02	0.03	0.39	593
2028	0.19	1.37	2.50	< 0.005	0.04	0.24	0.28	0.04	0.06	0.10	579	0.02	0.03	0.35	588
2029	2.90	1.36	2.50	< 0.005	0.04	0.22	0.26	0.04	0.05	0.09	546	0.02	0.02	0.28	554

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.87	53.7	35.5	0.19	1.83	11.1	12.9	1.72	2.79	4.51	26,633	0.65	3.17	43.1	27,637
2026	1.60	11.5	21.8	0.03	0.39	1.85	2.25	0.36	0.45	0.81	5,098	0.19	0.24	8.45	5,182
2027	1.53	10.9	21.2	0.03	0.35	1.85	2.21	0.33	0.45	0.77	5,048	0.14	0.23	7.65	5,128
2028	1.47	10.4	20.6	0.03	0.32	1.85	2.17	0.29	0.45	0.74	4,994	0.13	0.23	6.89	5,074
2029	74.9	17.3	33.4	0.05	0.54	2.36	2.90	0.50	0.57	1.07	7,089	0.20	0.26	7.46	7,178

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	5.91	74.2	50.5	0.22	2.84	14.7	17.5	2.64	4.57	7.21	29,372	0.76	3.20	1.12	30,345					
2026	1.57	11.6	19.8	0.03	0.39	1.85	2.25	0.36	0.45	0.81	4,966	0.14	0.24	0.22	5,043					
2027	1.50	11.0	19.3	0.03	0.35	1.85	2.21	0.33	0.45	0.77	4,919	0.14	0.23	0.20	4,992					
2028	1.45	10.5	18.8	0.03	0.32	1.85	2.17	0.29	0.45	0.74	4,869	0.13	0.23	0.18	4,941					
2029	74.8	17.4	31.1	0.05	0.54	2.36	2.90	0.50	0.57	1.07	6,925	0.20	0.26	0.19	7,007					
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
2025	2.31	28.5	22.4	0.09	1.00	5.51	6.51	0.93	1.48	2.41	12,768	0.34	1.38	8.82	13,196					
2026	1.12	8.29	14.4	0.02	0.28	1.32	1.61	0.26	0.32	0.58	3,561	0.10	0.17	2.60	3,618					
2027	1.07	7.89	14.0	0.02	0.25	1.32	1.58	0.23	0.32	0.55	3,527	0.10	0.17	2.36	3,581					
2028	1.03	7.51	13.7	0.02	0.23	1.33	1.55	0.21	0.32	0.53	3,500	0.10	0.17	2.13	3,554					
2029	15.9	7.47	13.7	0.02	0.22	1.20	1.43	0.21	0.29	0.50	3,301	0.09	0.14	1.69	3,346					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
2025	0.42	5.19	4.10	0.02	0.18	1.01	1.19	0.17	0.27	0.44	2,114	0.06	0.23	1.46	2,185					
2026	0.20	1.51	2.62	< 0.005	0.05	0.24	0.29	0.05	0.06	0.11	590	0.02	0.03	0.43	599					
2027	0.20	1.44	2.55	< 0.005	0.05	0.24	0.29	0.04	0.06	0.10	584	0.02	0.03	0.39	593					
2028	0.19	1.37	2.50	< 0.005	0.04	0.24	0.28	0.04	0.06	0.10	579	0.02	0.03	0.35	588					
2029	2.90	1.36	2.50	< 0.005	0.04	0.22	0.26	0.04	0.05	0.09	546	0.02	0.02	0.28	554					

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.2	6.97	86.4	0.19	0.31	18.1	18.4	0.30	4.57	4.87	23,235	20.1	0.62	24.4	23,947

Mit.	28.7	3.83	82.2	0.16	0.07	17.3	17.4	0.06	4.37	4.43	18,671	19.1	0.57	23.6	19,343
% Reduced	2%	45%	5%	14%	78%	4%	6%	80%	4%	9%	20%	5%	7%	3%	19%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.3	7.13	57.6	0.17	0.30	18.1	18.4	0.30	4.57	4.87	21,979	20.2	0.64	6.49	22,682
Mit.	26.8	3.98	53.8	0.15	0.06	17.3	17.3	0.05	4.37	4.42	17,469	19.1	0.60	6.47	18,131
% Reduced	2%	44%	7%	15%	81%	4%	6%	82%	4%	9%	21%	5%	7%	< 0.5%	20%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.2	7.23	71.1	0.17	0.31	17.7	18.0	0.30	4.47	4.77	21,833	20.2	0.64	13.8	22,541
Mit.	27.7	4.09	67.3	0.15	0.06	16.9	17.0	0.06	4.27	4.33	17,331	19.1	0.59	13.4	17,999
% Reduced	2%	43%	5%	15%	79%	4%	6%	81%	4%	9%	21%	5%	7%	2%	20%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.14	1.32	13.0	0.03	0.06	3.23	3.28	0.05	0.82	0.87	3,615	3.34	0.11	2.28	3,732
Mit.	5.05	0.75	12.3	0.03	0.01	3.08	3.10	0.01	0.78	0.79	2,869	3.17	0.10	2.22	2,980
% Reduced	2%	43%	5%	15%	79%	4%	6%	81%	4%	9%	21%	5%	7%	2%	20%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	550	150	—	—	150	—	—	55.0	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—

Total	27.3	7.13	57.6	0.17	0.30	18.1	18.4	0.30	4.57	4.87	21,979	20.2	0.64	6.49	22,682
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.35	4.15	57.0	0.15	0.06	17.7	17.7	0.06	4.47	4.52	15,543	0.58	0.53	7.76	15,724
Area	20.6	0.12	12.9	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	34.3	< 0.005	< 0.005	—	34.4
Energy	0.17	2.96	1.26	0.02	0.24	—	0.24	0.24	—	0.24	5,963	0.61	0.04	—	5,991
Water	—	—	—	—	—	—	—	—	—	—	130	2.65	0.06	—	215
Waste	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Total	28.2	7.23	71.1	0.17	0.31	17.7	18.0	0.30	4.47	4.77	21,833	20.2	0.64	13.8	22,541
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	0.76	10.4	0.03	0.01	3.23	3.24	0.01	0.82	0.83	2,573	0.10	0.09	1.29	2,603
Area	3.77	0.02	2.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.68	< 0.005	< 0.005	—	5.70
Energy	0.03	0.54	0.23	< 0.005	0.04	—	0.04	0.04	—	0.04	987	0.10	0.01	—	992
Water	—	—	—	—	—	—	—	—	—	—	21.4	0.44	0.01	—	35.6
Waste	—	—	—	—	—	—	—	—	—	—	27.0	2.70	0.00	—	94.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
Total	5.14	1.32	13.0	0.03	0.06	3.23	3.28	0.05	0.82	0.87	3,615	3.34	0.11	2.28	3,732

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.56	3.66	63.4	0.16	0.06	17.3	17.3	0.05	4.37	4.42	16,179	0.54	0.49	17.6	16,357
Area	21.2	0.17	18.8	< 0.005	0.01	—	0.01	0.01	—	0.01	50.1	< 0.005	< 0.005	—	50.2
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	2,171	0.27	0.03	—	2,188

Water	—	—	—	—	—	—	—	—	—	—	107	1.98	0.05	—	171
Waste	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Total	28.7	3.83	82.2	0.16	0.07	17.3	17.4	0.06	4.37	4.43	18,671	19.1	0.57	23.6	19,343
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.27	3.98	53.8	0.15	0.06	17.3	17.3	0.05	4.37	4.42	15,027	0.57	0.51	0.46	15,195
Area	19.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	2,171	0.27	0.03	—	2,188
Water	—	—	—	—	—	—	—	—	—	—	107	1.98	0.05	—	171
Waste	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Total	26.8	3.98	53.8	0.15	0.06	17.3	17.3	0.05	4.37	4.42	17,469	19.1	0.60	6.47	18,131
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.02	3.97	54.4	0.15	0.06	16.9	17.0	0.05	4.27	4.32	14,855	0.56	0.51	7.42	15,028
Area	20.6	0.12	12.9	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	34.3	< 0.005	< 0.005	—	34.4
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	2,171	0.27	0.03	—	2,188
Water	—	—	—	—	—	—	—	—	—	—	107	1.98	0.05	—	171
Waste	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Total	27.7	4.09	67.3	0.15	0.06	16.9	17.0	0.06	4.27	4.33	17,331	19.1	0.59	13.4	17,999
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.28	0.72	9.93	0.03	0.01	3.08	3.09	0.01	0.78	0.79	2,459	0.09	0.08	1.23	2,488
Area	3.77	0.02	2.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.68	< 0.005	< 0.005	—	5.70
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	360	0.05	0.01	—	362
Water	—	—	—	—	—	—	—	—	—	—	17.7	0.33	0.01	—	28.2
Waste	—	—	—	—	—	—	—	—	—	—	27.0	2.70	0.00	—	94.6

Off-Road Equipment	0.11	1.02	0.87	< 0.005	0.05	—	0.05	0.05	—	0.05	169	0.01	< 0.005	—	170
Dust From Material Movement	—	—	—	—	—	0.12	0.12	0.06	0.06	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.06	0.06	0.01	0.01	0.18	< 0.005	< 0.005	< 0.005	< 0.005	0.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.31	0.00	0.00	0.29	0.29	0.00	0.07	0.07	292	0.01	0.01	0.03	295
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
Hauling	0.30	22.9	5.44	0.13	0.38	5.19	5.56	0.38	1.45	1.83	19,754	0.37	3.11	1.09	20,690
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.4	< 0.005	< 0.005	0.06	32.8
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
Hauling	0.03	2.53	0.59	0.01	0.04	0.57	0.61	0.04	0.16	0.20	2,164	0.04	0.34	1.98	2,269
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.36	< 0.005	< 0.005	0.01	5.43
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
Hauling	0.01	0.46	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	358	0.01	0.06	0.33	376

3.2. Site Preparation (2025) - Mitigated

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

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

[illegible]

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.31	0.00	0.00	0.29	0.29	0.29	0.00	0.07	0.07	0.01	0.01	0.03	292	0.07	0.01	0.01	0.03	295
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	0.00	0.00
Hauling	0.30	22.9	5.44	0.13	0.38	5.19	5.19	5.56	0.38	1.45	1.83	0.37	19,754	1.09	19,754	1.83	3.11	3.11	1.09	20,690
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.03	0.00	0.01	0.01	< 0.005	< 0.005	0.06	32.4	0.01	< 0.005	< 0.005	0.06	32.8
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	0.00	0.00
Hauling	0.03	2.53	0.59	0.01	0.04	0.57	0.57	0.61	0.04	0.16	0.20	0.04	2,164	1.98	2,164	0.20	0.34	0.34	1.98	2,269
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	5.36	0.01	5.36	< 0.005	< 0.005	< 0.005	0.01	5.43
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	0.00	0.00
Hauling	0.01	0.46	0.11	< 0.005	0.01	0.10	0.10	0.11	0.01	0.03	0.04	0.01	358	0.33	358	0.04	0.06	0.06	0.33	376

3.3. Grading (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	31.7	28.6	0.06	1.46	—	1.46	1.34	—	1.34	6,597	0.27	0.05	—	6,620
Dust From Material Movement	—	—	—	—	—	2.70	2.70	—	0.98	0.98	—	—	—	—	—
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	2.94	2.94	< 0.005	0.29	0.29	9.89	< 0.005	< 0.005	0.01	10.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.17	0.00	0.00	0.26	0.26	0.26	0.26	0.26	0.00	0.06	0.06	0.01	0.01	0.03	262	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	0.00	0.00
Hauling	0.30	22.9	5.44	0.13	0.38	5.19	5.19	5.56	5.56	5.19	0.38	1.45	1.83	0.37	3.11	1.09	20,690	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.08	0.08	0.08	0.08	0.00	0.00	0.02	0.02	< 0.005	< 0.005	0.13	80.2	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	0.00	0.00
Hauling	0.09	6.97	1.62	0.04	0.11	1.56	1.56	1.68	1.68	1.56	0.11	0.44	0.55	0.11	0.94	5.44	6,239	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	< 0.005	< 0.005	< 0.005	< 0.005	0.02	13.3	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	0.00	0.00
Hauling	0.02	1.27	0.30	0.01	0.02	0.29	0.29	0.31	0.31	0.29	0.02	0.08	0.10	0.02	0.16	0.90	1,033	0.00	0.00	0.00

3.4. Grading (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	31.7	28.6	0.06	1.46	—	1.46	1.34	—	1.34	6,597	0.27	0.05	—	6,620
Dust From Material Movement	—	—	—	—	—	2.70	2.70	—	0.98	0.98	—	—	—	—	—
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	2.94	2.94	< 0.005	0.29	0.29	9.89	< 0.005	< 0.005	0.01	10.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	31.7	28.6	0.06	1.46	—	1.46	1.34	—	1.34	6,597	0.27	0.05	—	—	6,620				
Dust From Material Movement	—	—	—	—	—	2.70	2.70	0.98	0.98	—	—	—	—	—	—	—				
Onsite truck	< 0.005	0.04	0.02	< 0.005	< 0.005	2.94	2.94	0.29	0.29	< 0.005	9.97	< 0.005	< 0.005	< 0.005	< 0.005	10.5				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Off-Road Equipment	1.05	9.56	8.62	0.02	0.44	—	0.44	0.40	—	0.40	1,988	0.08	0.02	—	—	1,995				
Dust From Material Movement	—	—	—	—	—	0.81	0.81	0.30	0.30	—	—	—	—	—	—	—				
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	0.89	0.89	0.09	0.09	< 0.005	2.99	< 0.005	< 0.005	< 0.005	< 0.005	3.14				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Off-Road Equipment	0.19	1.74	1.57	< 0.005	0.08	—	0.08	0.07	—	0.07	329	0.01	< 0.005	< 0.005	< 0.005	330				
Dust From Material Movement	—	—	—	—	—	0.15	0.15	0.05	0.05	—	—	—	—	—	—	—				
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.16	0.16	0.02	0.02	< 0.005	0.50	< 0.005	< 0.005	< 0.005	< 0.005	0.52				
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Worker	0.09	0.09	1.54	0.00	0.00	0.26	0.26	0.06	0.06	0.00	282	0.01	0.01	1.04	286					
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	0.32	21.9	5.35	0.13	0.38	5.19	5.19	1.45	1.45	0.38	19,744	0.37	3.11	42.1	20,721					

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.17	0.00	0.00	0.26	0.26	0.26	0.26	0.26	0.00	0.06	0.06	0.01	0.01	0.03	0.03	262	262	262
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	0.00	0.00
Hauling	0.30	22.9	5.44	0.13	0.38	5.19	5.19	5.56	5.56	5.19	0.38	1.83	1.45	0.37	19,754	1.09	3.11	20,690	20,690	20,690
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.08	0.08	0.08	0.08	0.00	0.00	0.02	0.02	< 0.005	79.1	0.13	< 0.005	80.2	80.2	80.2
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	0.00	0.00	0.00
Hauling	0.09	6.97	1.62	0.04	0.11	1.56	1.56	1.68	1.68	1.56	0.11	0.55	0.44	0.11	5,951	5.44	0.94	6,239	6,239	6,239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	< 0.005	< 0.005	< 0.005	13.1	0.02	< 0.005	13.3	13.3	13.3
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	0.00	0.00
Hauling	0.02	1.27	0.30	0.01	0.02	0.29	0.29	0.31	0.31	0.29	0.02	0.10	0.08	0.02	985	0.90	0.16	1,033	1,033	1,033

3.5. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	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	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	3.17	3.96	0.01	0.13	—	0.13	0.12	—	0.12	727	0.03	0.01	—	730
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.58	0.72	< 0.005	0.02	—	0.02	0.02	—	0.02	120	< 0.005	< 0.005	—	121
Onsite truck	0.00	0.00	0.00	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	0.53	0.52	9.17	0.00	1.55	1.55	1.55	0.00	0.36	0.36	1,674	0.07	0.06	6.15	1,700
Vendor	0.02	1.18	0.37	0.01	0.02	0.30	0.32	0.02	0.08	0.10	1,079	0.02	0.16	3.06	1,132
Hauling	0.00	0.00	0.00	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	0.50	0.57	6.93	0.00	1.55	1.55	1.55	0.00	0.36	0.36	1,539	0.07	0.06	0.16	1,559
Vendor	0.02	1.24	0.38	0.01	0.02	0.30	0.32	0.02	0.08	0.10	1,080	0.02	0.16	0.08	1,130
Hauling	0.00	0.00	0.00	0.00	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	0.15	0.19	2.22	0.00	0.00	0.47	0.47	0.00	0.11	0.11	473	0.02	0.02	0.80	480
Vendor	0.01	0.38	0.11	< 0.005	0.09	0.09	0.10	< 0.005	0.03	0.03	327	0.01	0.05	0.40	343

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.02	0.02	78.3	< 0.005	< 0.005	< 0.005	0.13	79.4	
Vendor	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	54.2	< 0.005	< 0.005	0.01	0.07	56.8	
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	

3.6. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	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	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	3.17	3.96	0.01	0.13	—	0.13	0.12	—	0.12	727	0.03	0.01	—	730
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.58	0.72	< 0.005	0.02	—	0.02	0.02	0.02	—	0.02	120	< 0.005	< 0.005	—	121
Onsite truck	0.00	0.00	0.00	0.00	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	0.53	0.52	9.17	0.00	0.00	1.55	1.55	0.00	0.00	0.36	0.36	1.674	0.07	0.06	6.15	1,700
Vendor	0.02	1.18	0.37	0.01	0.02	0.30	0.30	0.02	0.02	0.10	0.08	1.079	0.02	0.16	3.06	1,132
Hauling	0.00	0.00	0.00	0.00	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	0.50	0.57	6.93	0.00	0.00	1.55	1.55	0.00	0.00	0.36	0.36	1.539	0.07	0.06	0.16	1,559
Vendor	0.02	1.24	0.38	0.01	0.02	0.30	0.30	0.02	0.02	0.10	0.08	1.080	0.02	0.16	0.08	1,130
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.15	0.19	2.22	0.00	0.00	0.47	0.47	0.00	0.00	0.11	0.11	473	0.02	0.02	0.80	480
Vendor	0.01	0.38	0.11	< 0.005	< 0.005	0.09	0.09	< 0.005	< 0.005	0.03	0.03	327	0.01	0.05	0.40	343
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.00	0.02	0.02	78.3	< 0.005	< 0.005	0.13	79.4
Vendor	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	< 0.005	54.2	< 0.005	0.01	0.07	56.8
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

3.7. Building Construction (2026) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.52	6.47	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.36	0.36	0.02	1.507	0.02	0.06	0.14	1,525	—
Vendor	0.02	1.18	0.36	0.01	0.02	0.30	0.30	0.02	0.02	0.08	0.10	0.08	0.02	1,063	0.02	0.16	0.08	1,112	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.34	0.41	4.83	0.00	0.00	1.11	1.11	1.11	0.00	0.00	0.26	0.26	0.02	1,090	0.02	0.04	1.71	1,104	—
Vendor	0.02	0.85	0.25	0.01	0.01	0.22	0.22	0.02	0.01	0.06	0.07	0.06	0.02	759	0.02	0.12	0.89	795	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.20	0.00	0.05	0.05	0.05	< 0.005	180	< 0.005	0.01	0.28	183	—
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	0.01	0.01	0.01	< 0.005	126	< 0.005	0.02	0.15	132	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—

3.8. Building Construction (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	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	0.77	7.04	9.26	0.02	0.27	—	0.27	0.25	—	0.25	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	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	0.14	1.28	1.69	< 0.005	0.05	—	0.05	0.05	—	0.05	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	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	0.50	0.47	8.53	0.00	0.00	1.55	1.55	0.00	0.36	0.36	1,638	0.07	0.06	5.55	1,662
Vendor	0.02	1.13	0.35	0.01	0.02	0.30	0.32	0.02	0.08	0.10	1,062	0.02	0.16	2.90	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.47	0.52	6.47	0.00	0.00	1.55	1.55	0.00	0.36	0.36	1,507	0.02	0.06	0.14	1,525
Vendor	0.02	1.18	0.36	0.01	0.02	0.30	0.32	0.02	0.08	0.10	1,063	0.02	0.16	0.08	1,112
Hauling	0.00	0.00	0.00	0.00	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	0.34	0.41	4.83	0.00	0.00	1.11	1.11	0.00	0.26	0.26	1,090	0.02	0.04	1.71	1,104
Vendor	0.02	0.85	0.25	0.01	0.01	0.22	0.23	0.01	0.06	0.07	759	0.02	0.12	0.89	795

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	180	< 0.005	0.01	0.28	183	0.00	0.00
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	126	< 0.005	0.02	0.15	132	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

3.9. Building Construction (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	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	0.74	6.71	9.24	0.02	0.24	—	0.24	0.22	—	0.22	1,712	0.07	0.01	—	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.13	1.22	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	283	0.01	< 0.005	—	284
Onsite truck	0.00	0.00	0.00	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	0.48	0.41	7.89	0.00	0.00	1.55	1.55	1.55	0.36	1.608	0.02	0.06	5.00	1.630	
Vendor	0.02	1.09	0.34	0.01	0.02	0.30	0.30	0.32	0.08	1.042	0.02	0.16	2.65	1.092	
Hauling	0.00	0.00	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	0.45	0.47	5.96	0.00	0.00	1.55	1.55	1.55	0.36	1.479	0.02	0.06	0.13	1.496	
Vendor	0.02	1.14	0.35	0.01	0.02	0.30	0.30	0.32	0.08	1.043	0.02	0.16	0.07	1.090	
Hauling	0.00	0.00	0.00	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	0.32	0.37	4.47	0.00	0.00	1.11	1.11	1.11	0.26	1.070	0.01	0.04	1.54	1.084	
Vendor	0.02	0.81	0.25	0.01	0.01	0.22	0.22	0.23	0.06	745	0.02	0.11	0.82	779	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.20	0.05	177	< 0.005	0.01	0.25	179	
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	0.04	0.01	123	< 0.005	0.02	0.14	129	
Hauling	0.00	0.00	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. Building Construction (2027) - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.47	5.96	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.36	0.36	0.36	1,479	0.02	0.06	0.13	1,496	0.00	0.00
Vendor	0.02	1.14	0.35	0.01	0.02	0.30	0.30	0.30	0.02	0.02	0.10	0.08	0.08	1,043	0.02	0.16	0.07	1,090	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	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.37	4.47	0.00	0.00	1.11	1.11	1.11	0.00	0.00	0.26	0.26	0.26	1,070	0.01	0.04	1.54	1,084	0.00	0.00
Vendor	0.02	0.81	0.25	0.01	0.01	0.22	0.22	0.22	0.01	0.01	0.07	0.06	0.06	745	0.02	0.11	0.82	779	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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.20	0.00	0.00	0.05	0.05	0.05	177	< 0.005	0.01	0.25	179	0.00	0.00
Vendor	< 0.005	0.15	0.05	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	< 0.005	0.01	0.01	0.01	123	< 0.005	0.02	0.14	129	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	0.00	0.00

3.11. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	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	0.99	8.92	12.9	0.02	0.30	0.30	0.28	—	0.28	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.39	9.26	0.02	0.22	0.22	0.20	—	0.20	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.17	1.69	< 0.005	0.04	0.04	0.04	—	0.04	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	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	0.46	0.41	7.35	0.00	0.00	1.55	0.00	0.36	0.36	1,578	0.02	0.06	4.48	1,600
Vendor	0.02	1.04	0.33	0.01	0.02	0.30	0.02	0.08	0.10	1,019	0.02	0.16	2.42	1,068
Hauling	0.00	0.00	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	0.43	0.46	5.56	0.00	0.00	1.55	0.00	0.36	0.36	1,452	0.02	0.06	0.12	1,469
Vendor	0.02	1.09	0.34	0.01	0.02	0.30	0.02	0.08	0.10	1,020	0.02	0.16	0.06	1,067
Hauling	0.00	0.00	0.00	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	0.31	0.33	4.20	0.00	0.00	1.11	0.00	0.26	0.26	1,053	0.02	0.04	1.38	1,067
Vendor	0.02	0.78	0.24	0.01	0.01	0.22	0.01	0.06	0.07	730	0.01	0.11	0.75	764

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.77	0.00	0.00	0.20	0.20	0.00	0.05	0.05	174	< 0.005	0.01	0.23	177	0.00	0.00
Vendor	< 0.005	0.14	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	121	< 0.005	0.02	0.12	127	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. Building Construction (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	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	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.39	9.26	0.02	0.22	—	0.22	0.20	—	0.20	1,717	0.07	0.01	—	1,723
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.13	1.17	1.69	< 0.005	0.04	—	0.04	0.04	—	0.04	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	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	0.46	0.41	7.35	0.00	0.00	1.55	1.55	1.55	0.00	0.00	1,578	0.02	0.06	4.48	1,600
Vendor	0.02	1.04	0.33	0.01	0.02	0.30	0.30	0.32	0.02	0.10	1,019	0.02	0.16	2.42	1,068
Hauling	0.00	0.00	0.00	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	0.43	0.46	5.56	0.00	0.00	1.55	1.55	1.55	0.00	0.36	1,452	0.02	0.06	0.12	1,469
Vendor	0.02	1.09	0.34	0.01	0.02	0.30	0.30	0.32	0.02	0.10	1,020	0.02	0.16	0.06	1,067
Hauling	0.00	0.00	0.00	0.00	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	0.31	0.33	4.20	0.00	0.00	1.11	1.11	1.11	0.00	0.26	1,053	0.02	0.04	1.38	1,067
Vendor	0.02	0.78	0.24	0.01	0.01	0.22	0.22	0.23	0.01	0.07	730	0.01	0.11	0.75	764
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.77	0.00	0.00	0.20	0.20	0.20	0.00	0.05	174	< 0.005	0.01	0.23	177
Vendor	< 0.005	0.14	0.04	< 0.005	< 0.005	0.04	0.04	0.04	< 0.005	0.01	121	< 0.005	0.02	0.12	127
Hauling	0.00	0.00	0.00	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 (2029) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.41	5.16	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.36	0.36	1,426	0.02	0.06	0.10	1,443			
Vendor	0.02	1.04	0.33	0.01	0.02	0.30	0.30	0.30	0.02	0.02	0.10	0.08	993	0.02	0.15	0.06	1,038			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.22	0.24	3.24	0.00	0.00	0.92	0.92	0.92	0.00	0.00	0.22	0.22	856	0.01	0.03	1.02	867			
Vendor	0.01	0.62	0.20	< 0.005	0.01	0.18	0.18	0.18	0.01	0.01	0.06	0.05	589	0.01	0.09	0.55	616			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	0.04	0.04	0.59	0.00	0.00	0.17	0.17	0.17	0.00	0.00	0.04	0.04	142	< 0.005	0.01	0.17	144			
Vendor	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.03	0.03	< 0.005	< 0.005	0.01	0.01	97.4	< 0.005	0.01	0.09	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			

3.14. Building Construction (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	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	0.97	8.58	12.9	0.02	0.28	0.25	—	0.25	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	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	0.57	5.09	7.65	0.01	0.16	0.15	—	0.15	1,421	0.06	0.01	—	1,426
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.93	1.40	< 0.005	0.03	0.03	—	0.03	235	0.01	< 0.005	—	236
Onsite truck	0.00	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	0.44	0.36	6.87	0.00	0.00	0.00	1.55	0.00	1,550	0.02	0.06	4.00	1,571
Vendor	0.02	1.00	0.33	0.01	0.02	0.02	0.30	0.02	992	0.02	0.15	2.16	1,039
Hauling	0.00	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	0.37	0.41	5.16	0.00	0.00	0.00	1.55	0.00	1,426	0.02	0.06	0.10	1,443
Vendor	0.02	1.04	0.33	0.01	0.02	0.02	0.30	0.02	993	0.02	0.15	0.06	1,038
Hauling	0.00	0.00	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	0.22	0.24	3.24	0.00	0.00	0.00	0.92	0.00	856	0.01	0.03	1.02	867
Vendor	0.01	0.62	0.20	< 0.005	0.01	0.01	0.18	0.01	589	0.01	0.09	0.55	616

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.59	0.00	0.00	0.17	0.17	0.00	0.04	0.04	142	< 0.005	0.01	0.17	144		
Vendor	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	97.4	< 0.005	0.01	0.09	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

3.15. Paving (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	6.46	9.92	0.01	0.24	—	0.24	0.22	—	0.22	1,511	0.06	0.01	—	1,516
Paving	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	6.46	9.92	0.01	0.24	—	0.24	0.22	—	0.22	1,511	0.06	0.01	—	1,516
Paving	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	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	1.33	2.04	< 0.005	0.05	—	0.05	0.05	—	0.05	310	0.01	< 0.005	—	311
Paving	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.24	0.37	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	51.4	< 0.005	< 0.005	—	—	51.6
Paving	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.87	0.00	0.20	0.20	0.20	0.00	0.00	0.05	0.05	0.05	0.05	196	< 0.005	< 0.005	0.01	0.50	198
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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.65	0.00	0.20	0.20	0.20	0.00	0.00	0.05	0.05	0.05	0.05	180	< 0.005	< 0.005	0.01	0.01	182
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.14	0.00	0.04	0.04	0.04	0.00	0.00	0.01	0.01	0.01	0.01	37.5	< 0.005	< 0.005	0.04	0.04	38.0
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.01	0.01	0.01	0.00	0.01	< 0.005	< 0.005	< 0.005	< 0.005	6.20	< 0.005	< 0.005	0.01	0.01	6.28
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	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	0.00

3.16. Paving (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	6.46	9.92	0.01	0.24	—	0.24	0.22	—	0.22	1,511	0.06	0.01	—	1,516
Paving	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	6.46	9.92	0.01	0.24	—	0.24	0.22	—	0.22	1,511	0.06	0.01	—	1,516
Paving	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	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	1.33	2.04	< 0.005	0.05	—	0.05	0.05	—	0.05	310	0.01	< 0.005	—	311
Paving	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.24	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	51.4	< 0.005	< 0.005	—	51.6
Paving	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.87	0.00	0.00	0.20	0.20	0.00	0.05	196	< 0.005	0.01	0.50	198				
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				
Hauling	0.00	0.00	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	0.05	0.05	0.65	0.00	0.00	0.20	0.20	0.00	0.05	180	< 0.005	0.01	0.01	182				
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				
Hauling	0.00	0.00	0.00	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	0.14	0.00	0.00	0.04	0.04	0.00	0.01	37.5	< 0.005	< 0.005	0.04	38.0				
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				
Hauling	0.00	0.00	0.00	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	6.20	< 0.005	< 0.005	0.01	6.28				
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				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

3.17. Architectural Coating (2029) - Unmitigated

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

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

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.07	1.37	0.00	0.00	0.31	0.31	0.00	0.07	0.07	0.31	< 0.005	0.01	0.80	314	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	0.07	0.08	1.03	0.00	0.00	0.31	0.31	0.00	0.07	0.07	0.31	< 0.005	0.01	0.02	289	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	0.02	0.02	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	0.06	< 0.005	< 0.005	0.07	60.1	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	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.01	9.95	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. Architectural Coating (2029) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	0.01	—	0.01	134	0.01	< 0.005	—	—	—	—	—	—	—	—	—	134
Architectural Coatings	72.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.79	1.11	< 0.005	0.01	—	0.01	0.01	0.01	—	0.01	134	0.01	< 0.005	—	—	—	—	—	—	—	—	—	134
Architectural Coatings	72.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	27.4	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	27.5
Architectural Coatings	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	4.54	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	4.56
Architectural Coatings	2.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	1.37	0.00	0.00	0.31	0.31	0.00	0.07	0.07	0.07	0.07	0.00	310	< 0.005	0.01	0.80	314	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	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	1.03	0.00	0.00	0.31	0.31	0.00	0.07	0.07	0.07	0.07	0.00	285	< 0.005	0.01	0.02	289	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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	0.01	0.01	0.00	59.3	< 0.005	< 0.005	0.07	60.1	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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	< 0.005	0.00	9.82	< 0.005	< 0.005	0.01	9.95	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	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	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	7.91	3.83	66.3	0.17	0.06	18.1	18.1	0.06	4.57	4.63	16,928	0.56	0.51	18.4	17,114
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.91	3.83	66.3	0.17	0.06	18.1	18.1	0.06	4.57	4.63	16,928	0.56	0.51	18.4	17,114
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	7.61	4.17	56.3	0.15	0.06	18.1	18.1	0.06	4.57	4.63	15,723	0.59	0.54	0.48	15,899
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.61	4.17	56.3	0.15	0.06	18.1	18.1	0.06	4.57	4.63	15,723	0.59	0.54	0.48	15,899
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.34	0.76	10.4	0.03	0.01	3.23	3.24	0.01	0.82	0.83	2,573	0.10	0.09	1.29	2,603
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.34	0.76	10.4	0.03	0.01	3.23	3.24	0.01	0.82	0.83	2,573	0.10	0.09	1.29	2,603

4.1.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	7.56	3.66	63.4	0.16	0.06	17.3	17.3	0.05	4.37	4.42	16,179	0.54	0.49	17.6	16,357
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.56	3.66	63.4	0.16	0.06	17.3	17.3	0.05	4.37	4.42	16,179	0.54	0.49	17.6	16,357
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	7.27	3.98	53.8	0.15	0.06	17.3	17.3	0.05	4.37	4.42	15,027	0.57	0.51	0.46	15,195
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7.27	3.98	53.8	0.15	0.06	17.3	17.3	0.05	4.37	4.42	15,027	0.57	0.51	0.46	15,195
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.28	0.72	9.93	0.03	0.01	3.08	3.09	0.01	0.78	0.79	2,459	0.09	0.08	1.23	2,488
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,202	0.28	0.03	—	2,219
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,202	0.28	0.03	—	2,219
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,202	0.28	0.03	—	2,219
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,202	0.28	0.03	—	2,219
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	365	0.05	0.01	—	367

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	365	0.05	0.01	—	367

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,171	0.27	0.03	—	2,188
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,171	0.27	0.03	—	2,188
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2,171	0.27	0.03	—	2,188
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,171	0.27	0.03	—	2,188
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,171	0.27	0.03	—	2,188
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	0.17	2.96	1.26	0.02	0.24	—	0.24	0.24	—	0.24	3,761	0.33	0.01	—	3,772
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.03	0.54	0.23	< 0.005	0.04	—	0.04	0.04	—	0.04	623	0.06	< 0.005	—	624
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.54	0.23	< 0.005	0.04	—	0.04	0.04	—	0.04	623	0.06	< 0.005	—	624

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00

[illegible]

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.62	0.17	18.8	< 0.005	0.01	—	0.01	0.01	—	0.01	50.1	< 0.005	< 0.005	—	50.2
Total	21.2	0.17	18.8	< 0.005	0.01	—	0.01	0.01	—	0.01	50.1	< 0.005	< 0.005	—	50.2

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	19.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	3.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.20	0.02	2.35	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	5.68	< 0.005	< 0.005	< 0.005	< 0.005	—	5.70	5.70
Total	3.77	0.02	2.35	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	5.68	< 0.005	< 0.005	< 0.005	< 0.005	—	5.70	5.70

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.62	0.17	18.8	< 0.005	0.01	—	—	0.01	0.01	—	—	0.01	50.1	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	50.2
Total	21.2	0.17	18.8	< 0.005	0.01	—	—	0.01	0.01	—	—	0.01	50.1	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	50.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	0.00	
Consumer Products	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Architectural Coatings	1.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total	19.5	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hearths	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	0.00	
Consumer Products	3.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Architectural Coatings	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Landscape Equipment	0.20	0.02	2.35	< 0.005	< 0.005	—	—	< 0.005	< 0.005	—	—	< 0.005	5.68	< 0.005	< 0.005	< 0.005	—	—	—	—	—	5.70	
Total	3.77	0.02	2.35	< 0.005	< 0.005	—	—	< 0.005	< 0.005	—	—	< 0.005	5.68	< 0.005	< 0.005	< 0.005	—	—	—	—	—	5.70	

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	90.1	1.98	0.05	—	154
City Park	—	—	—	—	—	—	—	—	—	—	10.0	< 0.005	< 0.005	—	10.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	6.49	< 0.005	< 0.005	—	6.54
Total	—	—	—	—	—	—	—	—	—	—	107	1.98	0.05	—	171
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	90.1	1.98	0.05	—	154
City Park	—	—	—	—	—	—	—	—	—	—	10.0	< 0.005	< 0.005	—	10.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	6.49	< 0.005	< 0.005	—	6.54
Total	—	—	—	—	—	—	—	—	—	—	107	1.98	0.05	—	171
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	14.9	0.33	0.01	—	25.5
City Park	—	—	—	—	—	—	—	—	—	—	1.66	< 0.005	< 0.005	—	1.67
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	1.08	< 0.005	< 0.005	—	1.08
Total	—	—	—	—	—	—	—	—	—	—	17.7	0.33	0.01	—	28.2

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Annual	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Single Family Housing	—	—	—	—	—	—	—	—	—	—	27.0	2.69	0.00	—	94.3
City Park	—	—	—	—	—	—	—	—	—	—	0.07	0.01	0.00	—	0.24

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	27.0	2.70	0.00	—	94.6

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	570
City Park	—	—	—	—	—	—	—	—	—	—	0.42	0.04	0.00	—	1.46
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571
Annual	—	—	—	—	—	—	—	—	—	—	163	16.3	0.00	—	571

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	27.0	2.69	0.00	—	94.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.07	0.01	0.00	—	0.24
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.0	2.70	0.00	—	94.6

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	6.01	6.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	Engine Tier	Number per Day	Hours Per Day	Horsepower	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2025	Average	3.00	8.00	367	40.0	—
Grading	Grading	2/26/2025	Average	4.00	8.00	87.0	110	—
Building Construction	Building Construction	7/30/2025	Average	2.00	8.00	423	1,110	—
Paving	Paving	7/18/2029	Average	1.00	8.00	148	75.0	—
Architectural Coating	Architectural Coating	7/18/2029	Average	1.00	8.00	148	75.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Site Preparation	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
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
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Site Preparation	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74

Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
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
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	287	20.0	HHDT
Site Preparation	Onsite truck	2.00	1.00	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	287	20.0	HHDT
Grading	Onsite truck	2.00	1.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	35.3	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	287	20.0	HHDT
Site Preparation	Onsite truck	2.00	1.00	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	287	20.0	HHDT
Grading	Onsite truck	2.00	1.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	119	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	35.3	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.8	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	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	1,699,587	566,529	600	200	32,409

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	91,677	—	60.0	0.00	—
Grading	252,113	—	330	0.00	—

Paving	0.00	0.00	0.00	0.00	16.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied		Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area		3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	3.64	0%
City Park	0.00	0%
Other Asphalt Surfaces	12.4	100%

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	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005
2029	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

[illegible]

5.9.2. Mitigated

[illegible]

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	330
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0

Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	330
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1699586.5499999998	566,529	600	200	32,409

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	3,081,950	261	0.0330	0.0040	11,736,224
City Park	0.00	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	3,039,213	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	13,422,346	5,807,811
City Park	0.00	2,639,905
Other Asphalt Surfaces	0.00	1,712,877

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	10,043,941	5,807,811
City Park	0.00	2,639,905
Other Asphalt Surfaces	0.00	1,712,877

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	302	—
City Park	0.77	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	302	—
City Park	0.77	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type		Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.8	annual days of extreme heat
Extreme Precipitation	2.60	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	9.89	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	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	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	0	0	0	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	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
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	1	1	1	2

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	91.1			
AQ-PM	47.8			
AQ-DPM	49.9			
Drinking Water	10.2			
Lead Risk Housing	13.3			
Pesticides	68.3			
Toxic Releases	20.4			
Traffic	12.1			
Effect Indicators	—			
CleanUp Sites	0.00			
Groundwater	22.1			
Haz Waste Facilities/Generators	0.00			
Impaired Water Bodies	0.00			
Solid Waste	70.6			

Sensitive Population	—
Asthma	28.6
Cardio-vascular	68.2
Low Birth Weights	48.3
Socioeconomic Factor Indicators	—
Education	62.4
Housing	34.2
Linguistic	30.0
Poverty	49.5
Unemployment	59.4

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	84.44758116
Employed	54.30514564
Median HI	78.3908636
Education	—
Bachelor's or higher	45.32272552
High school enrollment	12.79353266
Preschool enrollment	46.22096753
Transportation	—
Auto Access	78.96830489
Active commuting	16.41216476
Social	—
2-parent households	77.08199666

Voting	50.00641601
Neighborhood	—
Alcohol availability	73.91248556
Park access	4.889002951
Retail density	11.98511485
Supermarket access	2.399589375
Tree canopy	2.527909663
Housing	—
Homeownership	95.48312588
Housing habitability	95.41896574
Low-inc homeowner severe housing cost burden	90.82509945
Low-inc renter severe housing cost burden	91.77466958
Uncrowded housing	46.83690491
Health Outcomes	—
Insured adults	68.18940074
Arthritis	78.8
Asthma ER Admissions	74.8
High Blood Pressure	84.3
Cancer (excluding skin)	63.4
Asthma	40.2
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	71.2
Diagnosed Diabetes	88.2
Life Expectancy at Birth	11.4
Cognitively Disabled	76.7
Physically Disabled	34.8
Heart Attack ER Admissions	22.6

Mental Health Not Good	47.3
Chronic Kidney Disease	90.3
Obesity	39.8
Pedestrian Injuries	19.6
Physical Health Not Good	68.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	5.9
Current Smoker	34.1
No Leisure Time for Physical Activity	63.5
Climate Change Exposures	—
Wildfire Risk	3.3
SLR Inundation Area	0.0
Children	19.0
Elderly	53.8
English Speaking	86.0
Foreign-born	17.7
Outdoor Workers	60.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.5
Traffic Density	7.8
Traffic Access	23.0
Other Indices	—
Hardship	46.0
Other Decision Support	—
2016 Voting	64.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	36.0
Healthy Places Index Score for Project Location (b)	60.0
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 Healthy 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	Total disturbed area 51.2 acres. Total landscaped area set to 20% of total area of each land use
Construction: Construction Phases	No Demolition
Operations: Vehicle Data	No trips generated from City Park
Operations: Hearths	No woodstoves or fireplaces
Construction: Off-Road Equipment	For Site Preparation and Grading Tractor/Loader/Backhoe changed to Crawler Tractors. Two Scrapers added to Site Preparation Phase
Construction: Dust From Material Movement	Total Import 343,790 cubic yards, spread proportionally between Site Prep and Grading
Operations: Fleet Mix	Vehicle Mix adjusted so that all truck trips equate to 1.8 percent of daily truck trips

Characteristics: Project Details	Changed from Rural to Suburban since the project fits definition of Suburb with Single-Family Homes from Table C-12 of CalEEMod User Guide

APPENDIX C

EMFAC2017 Model Printouts

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Air District

Region: SOUTH COAST AQMD

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH CO/	2025	HHDT	Aggregated	Aggregated	GAS	74	9006	1480	2.0
SOUTH CO/	2025	LDA	Aggregated	Aggregated	GAS	6805727	253145343	32143253	7565.5
SOUTH CO/	2025	LDT1	Aggregated	Aggregated	GAS	800497	28711777	3705073	1005.9
SOUTH CO/	2025	LDT2	Aggregated	Aggregated	GAS	2364309	86303467	11096373	3161.4
SOUTH CO/	2025	LHDT1	Aggregated	Aggregated	GAS	173430	6082106	2583854	557.4
SOUTH CO/	2025	LHDT2	Aggregated	Aggregated	GAS	30280	1023279	451131	107.9
SOUTH CO/	2025	MCY	Aggregated	Aggregated	GAS	322405	2156493	644810	59.6
SOUTH CO/	2025	MDV	Aggregated	Aggregated	GAS	1610759	55349776	7459997	2511.0
SOUTH CO/	2025	MH	Aggregated	Aggregated	GAS	33995	324473	3401	60.3
SOUTH CO/	2025	MHDT	Aggregated	Aggregated	GAS	25991	1355597	520025	256.0
SOUTH CO/	2025	OBUS	Aggregated	Aggregated	GAS	5954	237698	119120	45.0
SOUTH CO/	2025	SBUS	Aggregated	Aggregated	GAS	3093	121823	12371	13.0
SOUTH CO/	2025	UBUS	Aggregated	Aggregated	GAS	969	90836	3877	16.7
vehicle miles per day (All Categories)									15,362 1,000 gall per day
									15,361,645 gallons per day
Fleet Avg Miles per gallon							28.3		

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Air District

Region: SOUTH COAST AQMD

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar Yr	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH COA	2025	HHDT	Aggregated	Aggregated	DSL	114510	14172365	1194129	1921.3
SOUTH COA	2025	LDA	Aggregated	Aggregated	DSL	68722	2656428	327385	50.5
SOUTH COA	2025	LDT1	Aggregated	Aggregated	DSL	314	7371	1102	0.3
SOUTH COA	2025	LDT2	Aggregated	Aggregated	DSL	18091	722151	88341	18.7
SOUTH COA	2025	LHDT1	Aggregated	Aggregated	DSL	137400	5304569	1728314	235.1
SOUTH COA	2025	LHDT2	Aggregated	Aggregated	DSL	55100	2061806	693092	101.3
SOUTH COA	2025	MDV	Aggregated	Aggregated	DSL	41295	1564638	200455	52.7
SOUTH COA	2025	MH	Aggregated	Aggregated	DSL	13797	127692	1380	11.7
SOUTH COA	2025	MHDT	Aggregated	Aggregated	DSL	132893	8444866	1340366	732.0
SOUTH COA	2025	OBUS	Aggregated	Aggregated	DSL	4685	349834	45454	38.8
SOUTH COA	2025	SBUS	Aggregated	Aggregated	DSL	6746	213319	77852	27.1
SOUTH COA	2025	UBUS	Aggregated	Aggregated	DSL	6	776	25	0.1
Diesel Truck (HHDT, MDV, MHDT) vehicle miles per day							24,181,869	2,706 1,000 gall per day	
								2706058 gallons per day	
Diesel Truck Fleet Avg Miles per gallon							8.9		

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Air District

Region: SOUTH COAST AQMD

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH CO,	2029	HHDT	Aggregated	Aggregated	GAS	80	10568	1598	2.17
SOUTH CO,	2029	LDA	Aggregated	Aggregated	GAS	7138500	253960582	33652427	6906.25
SOUTH CO,	2029	LDT1	Aggregated	Aggregated	GAS	879339	30101020	4070005	966.30
SOUTH CO,	2029	LDT2	Aggregated	Aggregated	GAS	2533218	88382303	11864139	2888.14
SOUTH CO,	2029	LHDT1	Aggregated	Aggregated	GAS	173947	5954058	2591550	513.10
SOUTH CO,	2029	LHDT2	Aggregated	Aggregated	GAS	30791	1012605	458738	100.63
SOUTH CO,	2029	MCY	Aggregated	Aggregated	GAS	354079	2235363	708158	61.98
SOUTH CO,	2029	MDV	Aggregated	Aggregated	GAS	1667521	55210049	7730374	2227.57
SOUTH CO,	2029	MH	Aggregated	Aggregated	GAS	33154	317255	3317	55.17
SOUTH CO,	2029	MHDT	Aggregated	Aggregated	GAS	26847	1350539	537150	239.11
SOUTH CO,	2029	OBUS	Aggregated	Aggregated	GAS	5999	228601	120035	40.44
SOUTH CO,	2029	SBUS	Aggregated	Aggregated	GAS	3703	140496	14813	14.42
SOUTH CO,	2029	UBUS	Aggregated	Aggregated	GAS	992	92942	3968	16.48
vehicle miles per day (All Categories)							438996380	14,032 1,000 gall per day	
								14,031,755 gallons per day	
Fleet Avg Miles per gallon							31.3		

APPENDIX D

EMFAC2021 Model Printouts

EMFAC2021 version 1.0.2

calendar	season	sub	vehicle	relative			speed	emission		
year	month	area	class	fuel	temper	humidity	process	time	pollutant	rate
2029	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	10	PM2_5	0.0103
2029	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	45	PM2_5	0.0100
2029	Annual	Riverside (SC)	Truck2	Dsl			IDLEX		PM2_5	0.0129
2028	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	10	PM2_5	0.0109
2028	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	45	PM2_5	0.0102
2028	Annual	Riverside (SC)	Truck2	Dsl			IDLEX		PM2_5	0.0137
2027	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	10	PM2_5	0.0117
2027	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	45	PM2_5	0.0103
2027	Annual	Riverside (SC)	Truck2	Dsl			IDLEX		PM2_5	0.0146
2026	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	10	PM2_5	0.0126
2026	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	45	PM2_5	0.0106
2026	Annual	Riverside (SC)	Truck2	Dsl			IDLEX		PM2_5	0.0159
2025	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	10	PM2_5	0.0137
2025	Annual	Riverside (SC)	Truck2	Dsl	57	50	RUNEX	45	PM2_5	0.0109
2025	Annual	Riverside (SC)	Truck2	Dsl			IDLEX		PM2_5	0.0174

APPENDIX E

AERMOD Model Year 2025 Construction DPM Printouts

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Menifee\AERMOD\Unmit2025\Unmit2025.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Menifee TTM No 38625 - Year 2025 Construction DPM Unmitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL Unmit2025.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840   440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 9.08E-06
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
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  LOCATION L0001048      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0001049      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0001050	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0001051	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0001052	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0001053	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0001054	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0001055	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0001056	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0001057	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0001058	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0001059	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0001060	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0001061	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0001062	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0001063	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0001064	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0001065	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0001066	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0001067	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0001068	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0001069	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0001070	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0001071	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0001072	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0001073	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0001074	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0001075	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0001076	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0001077	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0001078	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0001079	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0001080	VOLUME	487344.779	3730061.706	442.00
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LOCATION	L0001082	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0001083	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0001084	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0001085	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0001086	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0001087	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0001088	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0001089	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0001090	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0001091	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0001092	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0001093	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0001094	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0001095	VOLUME	487345.640	3729906.260	441.00
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LOCATION	L0001097	VOLUME	487345.755	3729885.534	441.00
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LOCATION	L0001101	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0001102	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0001103	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0001104	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0001105	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0001106	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0001107	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0001108	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0001109	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0001110	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0001111	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0001112	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0001113	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0001114	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0001115	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0001116	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0001117	VOLUME	487346.903	3729678.273	441.00
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LOCATION	L0001121	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0001122	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0001123	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0001124	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0001125	VOLUME	487347.362	3729595.369	440.00
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LOCATION	L0001129	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0001130	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0001131	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0001132	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0001133	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0001134	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0001135	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0001136	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0001137	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0001138	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0001139	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0001140	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0001141	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0001142	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0001143	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0001144	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0001145	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0001146	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0001147	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0001148	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0001149	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

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** Emission Rate = 7.27E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION L0001152      VOLUME  487171.938 3729658.720 441.00
LOCATION L0001153      VOLUME  487182.301 3729658.792 441.00
LOCATION L0001154      VOLUME  487192.664 3729658.863 441.00
LOCATION L0001155      VOLUME  487203.027 3729658.935 441.00
LOCATION L0001156      VOLUME  487213.390 3729659.007 441.00
LOCATION L0001157      VOLUME  487223.753 3729659.079 441.00
LOCATION L0001158      VOLUME  487234.115 3729659.150 441.00
LOCATION L0001159      VOLUME  487244.478 3729659.222 441.00
LOCATION L0001160      VOLUME  487254.841 3729659.294 441.00
LOCATION L0001161      VOLUME  487265.204 3729659.366 441.00
LOCATION L0001162      VOLUME  487275.567 3729659.437 441.00
LOCATION L0001163      VOLUME  487285.930 3729659.509 441.00
LOCATION L0001164      VOLUME  487296.293 3729659.581 441.00
LOCATION L0001165      VOLUME  487306.656 3729659.653 441.00
LOCATION L0001166      VOLUME  487317.019 3729659.724 441.00
LOCATION L0001167      VOLUME  487327.382 3729659.796 441.00
LOCATION L0001168      VOLUME  487337.745 3729659.868 441.00
LOCATION L0001169      VOLUME  487348.108 3729659.940 441.00
LOCATION L0001170      VOLUME  487358.471 3729660.011 441.00
LOCATION L0001171      VOLUME  487368.834 3729660.083 441.00
LOCATION L0001172      VOLUME  487379.197 3729660.155 441.00
LOCATION L0001173      VOLUME  487389.560 3729660.227 441.00
LOCATION L0001174      VOLUME  487399.923 3729660.298 440.83
LOCATION L0001175      VOLUME  487410.286 3729660.370 440.65
LOCATION L0001176      VOLUME  487420.649 3729660.442 440.48
LOCATION L0001177      VOLUME  487431.012 3729660.514 440.49
LOCATION L0001178      VOLUME  487441.375 3729660.585 440.49
LOCATION L0001179      VOLUME  487451.737 3729660.657 440.52
LOCATION L0001180      VOLUME  487462.100 3729660.729 440.69
LOCATION L0001181      VOLUME  487472.463 3729660.801 440.87
LOCATION L0001182      VOLUME  487482.826 3729660.872 441.00
LOCATION L0001183      VOLUME  487493.189 3729660.944 441.00
LOCATION L0001184      VOLUME  487503.552 3729661.016 441.00
LOCATION L0001185      VOLUME  487513.915 3729661.088 441.00
LOCATION L0001186      VOLUME  487524.278 3729661.159 441.00
LOCATION L0001187      VOLUME  487534.641 3729661.231 441.00
LOCATION L0001188      VOLUME  487545.004 3729661.303 441.00
LOCATION L0001189      VOLUME  487555.367 3729661.375 441.00
LOCATION L0001190      VOLUME  487565.730 3729661.446 441.00
LOCATION L0001191      VOLUME  487576.093 3729661.518 441.00
LOCATION L0001192      VOLUME  487586.456 3729661.590 441.00
LOCATION L0001193      VOLUME  487596.819 3729661.662 441.00
LOCATION L0001194      VOLUME  487607.182 3729661.733 441.00
LOCATION L0001195      VOLUME  487617.545 3729661.805 441.00
LOCATION L0001196      VOLUME  487627.908 3729661.877 441.00

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LOCATION	L0001197	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0001198	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0001199	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0001200	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0001201	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0001202	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0001203	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0001204	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0001205	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0001206	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0001207	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0001208	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0001209	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0001210	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0001211	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0001212	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0001213	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0001214	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0001215	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0001216	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0001217	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0001218	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0001219	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0001220	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0001221	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0001222	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0001223	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0001224	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0001225	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0001226	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0001227	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0001228	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0001229	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0001230	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0001231	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 7.29E-06

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0001232	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0001233	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0001234	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0001235	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0001236	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0001237	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0001238	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0001239	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0001240	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0001241	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0001242	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0001243	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0001244	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0001245	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0001246	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0001247	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0001248	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0001249	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0001250	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0001251	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0001252	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0001253	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0001254	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0001255	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0001256	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0001257	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0001258	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0001259	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0001260	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0001261	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0001262	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0001263	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0001264	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0001265	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0001266	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0001267	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0001268	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0001269	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0001270	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0001271	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0001272	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0001273	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0001274	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0001275	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0001276	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0001277	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0001278	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0001279	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0001280	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0001281	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0001282	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0001283	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0001284	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0001285	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0001286	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0001287	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0001288	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0001289	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0001290	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0001291	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0001292	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0001293	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0001294	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0001295	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0001296	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0001297	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0001298	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0001299	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0001300	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0001301	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0001302	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0001303	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0001304	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0001305	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0001306	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0001307	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0001308	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0001309	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0001310	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0001311	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0001312	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0001313	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 8.13E-06

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0001314	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0001315	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0001316	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0001317	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0001318	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0001319	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0001320	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0001321	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0001322	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0001323	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0001324	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0001325	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0001326	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0001327	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0001328	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0001329	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0001330	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0001331	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0001332	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0001333	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0001334	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0001335	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0001336	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0001337	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0001338	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0001339	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0001340	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0001341	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0001342	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0001343	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0001344	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0001345	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0001346	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0001347	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0001348	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0001349	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0001350	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0001351	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0001352	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0001353	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0001354	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0001355	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0001356	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0001357	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0001358	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0001359	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0001360	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0001361	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0001362	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0001363	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0001364	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0001365	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0001366	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0001367	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0001368	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0001369	VOLUME	487142.209	3729442.303	440.00
LOCATION	L0001370	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0001371	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0001372	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0001373	VOLUME	487142.513	3729427.676	440.00
LOCATION	L0001374	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0001375	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0001376	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0001377	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0001378	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0001379	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0001380	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0001381	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0001382	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0001383	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0001384	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0001385	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0001386	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0001387	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0001388	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0001389	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0001390	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0001391	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0001392	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0001393	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0001394	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0001395	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0001396	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0001397	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0001398	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0001399	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0001400	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0001401	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0001402	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0001403	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0001404	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0001405	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0001406	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0001407	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0001408	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0001409	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0001410	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0001411	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0001412	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0001413	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0001414	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0001415	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0001416	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0001417	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0001418	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0001419	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0001420	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0001421	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0001422	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0001423	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0001424	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0001425	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0001426	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0001427	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0001428	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0001429	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0001430	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0001431	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0001432	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0001433	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0001434	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0001435	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0001436	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0001437	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0001438	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0001439	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0001440	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0001441	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0001442	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0001443	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0001444	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0001445	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0001446	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0001447	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0001448	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0001449	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0001450	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.0108	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0001048	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001049	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001050	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001051	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001052	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001053	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001054	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001055	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001056	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001057	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001058	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001059	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001060	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001061	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001062	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001063	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001064	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001065	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001066	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001067	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001068	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001069	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001070	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001071	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001072	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001073	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001074	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001075	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001076	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001077	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001078	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001079	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001080	0.00000008902	0.00	4.82	1.70

[illegible]

[illegible]

* *

** LINE VOLUME Source ID = RDSIMPW

SRCPARAM	L0001232	0.00000000889	0.00	4.82	0.85
SRCPARAM	L0001233	0.00000000889	0.00	4.82	0.85
SRCPARAM	L0001234	0.00000000889	0.00	4.82	0.85
SRCPARAM	L0001235	0.00000000889	0.00	4.82	0.85
SRCPARAM	L0001236	0.00000000889	0.00	4.82	0.85
SRCPARAM	L0001237	0.00000000889	0.00	4.82	0.85
SRCPARAM	L0001238	0.00000000889	0.00	4.82	0.85

[illegible]

[illegible]

[illegible]

* *

SRCPARAM IDLE	2.75E-06	3.658	366.000	50	0.1


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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED Unmit2025.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST UNMIT2025.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL UNMIT2025.AD\PE00GALL.PLT 32
    SUMMFILE Unmit2025.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
**

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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/22/2023
** File: C:\Vista Env\2023\23020 Menifee\AERMOD\Mit2025\Mit2025.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Menifee TTM No 38625 - Year 2025 Construction DPM Mitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL Mit2025.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840       440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 9.08E-06
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
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  LOCATION L0001048      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0001049      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0001050	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0001051	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0001052	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0001053	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0001054	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0001055	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0001056	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0001057	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0001058	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0001059	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0001060	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0001061	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0001062	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0001063	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0001064	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0001065	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0001066	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0001067	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0001068	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0001069	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0001070	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0001071	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0001072	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0001073	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0001074	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0001075	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0001076	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0001077	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0001078	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0001079	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0001080	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0001081	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0001082	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0001083	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0001084	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0001085	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0001086	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0001087	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0001088	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0001089	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0001090	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0001091	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0001092	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0001093	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0001094	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0001095	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0001096	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0001097	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0001098	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0001099	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0001100	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0001101	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0001102	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0001103	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0001104	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0001105	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0001106	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0001107	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0001108	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0001109	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0001110	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0001111	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0001112	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0001113	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0001114	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0001115	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0001116	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0001117	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0001118	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0001119	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0001120	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0001121	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0001122	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0001123	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0001124	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0001125	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0001126	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0001127	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0001128	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0001129	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0001130	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0001131	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0001132	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0001133	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0001134	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0001135	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0001136	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0001137	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0001138	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0001139	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0001140	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0001141	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0001142	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0001143	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0001144	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0001145	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0001146	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0001147	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0001148	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0001149	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

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** Emission Rate = 7.27E-06
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION L0001150      VOLUME  487151.212 3729658.576 441.00
LOCATION L0001151      VOLUME  487161.575 3729658.648 441.00
LOCATION L0001152      VOLUME  487171.938 3729658.720 441.00
LOCATION L0001153      VOLUME  487182.301 3729658.792 441.00
LOCATION L0001154      VOLUME  487192.664 3729658.863 441.00
LOCATION L0001155      VOLUME  487203.027 3729658.935 441.00
LOCATION L0001156      VOLUME  487213.390 3729659.007 441.00
LOCATION L0001157      VOLUME  487223.753 3729659.079 441.00
LOCATION L0001158      VOLUME  487234.115 3729659.150 441.00
LOCATION L0001159      VOLUME  487244.478 3729659.222 441.00
LOCATION L0001160      VOLUME  487254.841 3729659.294 441.00
LOCATION L0001161      VOLUME  487265.204 3729659.366 441.00
LOCATION L0001162      VOLUME  487275.567 3729659.437 441.00
LOCATION L0001163      VOLUME  487285.930 3729659.509 441.00
LOCATION L0001164      VOLUME  487296.293 3729659.581 441.00
LOCATION L0001165      VOLUME  487306.656 3729659.653 441.00
LOCATION L0001166      VOLUME  487317.019 3729659.724 441.00
LOCATION L0001167      VOLUME  487327.382 3729659.796 441.00
LOCATION L0001168      VOLUME  487337.745 3729659.868 441.00
LOCATION L0001169      VOLUME  487348.108 3729659.940 441.00
LOCATION L0001170      VOLUME  487358.471 3729660.011 441.00
LOCATION L0001171      VOLUME  487368.834 3729660.083 441.00
LOCATION L0001172      VOLUME  487379.197 3729660.155 441.00
LOCATION L0001173      VOLUME  487389.560 3729660.227 441.00
LOCATION L0001174      VOLUME  487399.923 3729660.298 440.83
LOCATION L0001175      VOLUME  487410.286 3729660.370 440.65
LOCATION L0001176      VOLUME  487420.649 3729660.442 440.48
LOCATION L0001177      VOLUME  487431.012 3729660.514 440.49
LOCATION L0001178      VOLUME  487441.375 3729660.585 440.49
LOCATION L0001179      VOLUME  487451.737 3729660.657 440.52
LOCATION L0001180      VOLUME  487462.100 3729660.729 440.69
LOCATION L0001181      VOLUME  487472.463 3729660.801 440.87
LOCATION L0001182      VOLUME  487482.826 3729660.872 441.00
LOCATION L0001183      VOLUME  487493.189 3729660.944 441.00
LOCATION L0001184      VOLUME  487503.552 3729661.016 441.00
LOCATION L0001185      VOLUME  487513.915 3729661.088 441.00
LOCATION L0001186      VOLUME  487524.278 3729661.159 441.00
LOCATION L0001187      VOLUME  487534.641 3729661.231 441.00
LOCATION L0001188      VOLUME  487545.004 3729661.303 441.00
LOCATION L0001189      VOLUME  487555.367 3729661.375 441.00
LOCATION L0001190      VOLUME  487565.730 3729661.446 441.00
LOCATION L0001191      VOLUME  487576.093 3729661.518 441.00
LOCATION L0001192      VOLUME  487586.456 3729661.590 441.00
LOCATION L0001193      VOLUME  487596.819 3729661.662 441.00
LOCATION L0001194      VOLUME  487607.182 3729661.733 441.00
LOCATION L0001195      VOLUME  487617.545 3729661.805 441.00
LOCATION L0001196      VOLUME  487627.908 3729661.877 441.00

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LOCATION	L0001197	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0001198	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0001199	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0001200	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0001201	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0001202	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0001203	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0001204	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0001205	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0001206	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0001207	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0001208	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0001209	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0001210	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0001211	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0001212	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0001213	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0001214	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0001215	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0001216	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0001217	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0001218	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0001219	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0001220	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0001221	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0001222	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0001223	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0001224	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0001225	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0001226	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0001227	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0001228	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0001229	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0001230	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0001231	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 7.29E-06

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

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LOCATION	L0001232	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0001233	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0001234	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0001235	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0001236	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0001237	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0001238	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0001239	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0001240	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0001241	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0001242	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0001243	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0001244	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0001245	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0001246	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0001247	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0001248	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0001249	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0001250	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0001251	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0001252	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0001253	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0001254	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0001255	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0001256	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0001257	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0001258	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0001259	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0001260	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0001261	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0001262	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0001263	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0001264	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0001265	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0001266	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0001267	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0001268	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0001269	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0001270	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0001271	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0001272	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0001273	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0001274	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0001275	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0001276	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0001277	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0001278	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0001279	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0001280	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0001281	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0001282	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0001283	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0001284	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0001285	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0001286	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0001287	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0001288	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0001289	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0001290	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0001291	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0001292	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0001293	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0001294	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0001295	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0001296	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0001297	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0001298	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0001299	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0001300	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0001301	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0001302	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0001303	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0001304	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0001305	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0001306	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0001307	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0001308	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0001309	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0001310	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0001311	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0001312	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0001313	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 8.13E-06

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0001314	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0001315	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0001316	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0001317	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0001318	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0001319	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0001320	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0001321	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0001322	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0001323	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0001324	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0001325	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0001326	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0001327	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0001328	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0001329	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0001330	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0001331	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0001332	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0001333	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0001334	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0001335	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0001336	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0001337	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0001338	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0001339	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0001340	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0001341	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0001342	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0001343	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0001344	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0001345	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0001346	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0001347	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0001348	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0001349	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0001350	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0001351	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0001352	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0001353	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0001354	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0001355	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0001356	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0001357	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0001358	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0001359	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0001360	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0001361	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0001362	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0001363	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0001364	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0001365	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0001366	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0001367	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0001368	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0001369	VOLUME	487142.209	3729442.303	440.00
LOCATION	L0001370	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0001371	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0001372	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0001373	VOLUME	487142.513	3729427.676	440.00
LOCATION	L0001374	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0001375	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0001376	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0001377	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0001378	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0001379	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0001380	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0001381	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0001382	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0001383	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0001384	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0001385	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0001386	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0001387	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0001388	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0001389	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0001390	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0001391	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0001392	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0001393	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0001394	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0001395	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0001396	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0001397	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0001398	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0001399	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0001400	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0001401	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0001402	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0001403	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0001404	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0001405	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0001406	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0001407	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0001408	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0001409	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0001410	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0001411	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0001412	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0001413	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0001414	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0001415	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0001416	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0001417	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0001418	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0001419	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0001420	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0001421	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0001422	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0001423	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0001424	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0001425	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0001426	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0001427	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0001428	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0001429	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0001430	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0001431	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0001432	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0001433	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0001434	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0001435	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0001436	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0001437	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0001438	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0001439	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0001440	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0001441	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0001442	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0001443	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0001444	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0001445	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0001446	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0001447	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0001448	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0001449	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0001450	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.0014	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0001048	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001049	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001050	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001051	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001052	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001053	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001054	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001055	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001056	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001057	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001058	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001059	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001060	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001061	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001062	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001063	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001064	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001065	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001066	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001067	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001068	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001069	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001070	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001071	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001072	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001073	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001074	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001075	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001076	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001077	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001078	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001079	0.00000008902	0.00	4.82	1.70
SRCPARAM	L0001080	0.00000008902	0.00	4.82	1.70

[illegible]

[illegible]

[illegible]

[illegible]

SRCPARAM IDLE	2.75E-06	3.658	366.000	50	0.1

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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED Mit2025.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST MIT2025.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL MIT2025.AD\PE00GALL.PLT 32
    SUMMFILE Mit2025.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
**

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* AERMOD (22112): Menifee TTM No 38625 - Year 2025 Construction DPM Mitigated 09/22/23
* AERMET (16216): 22:28:15

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL

* FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.00472	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00430	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.00667	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.00941	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.00858	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.01366	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.01370	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.01128	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.01604	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.01763	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.01557	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00450	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2

APPENDIX F

AERMOD Model Year 2026 Construction DPM Printouts

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Menifee\AERMOD\UnMit2026\UnMit2026.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Menifee TTM No 38625 - Year 2026 Construction DPM UnMitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL UnMit2026.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840   440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 8.89E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
** -----
  LOCATION L0001451      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0001452      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0001453	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0001454	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0001455	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0001456	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0001457	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0001458	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0001459	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0001460	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0001461	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0001462	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0001463	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0001464	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0001465	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0001466	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0001467	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0001468	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0001469	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0001470	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0001471	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0001472	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0001473	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0001474	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0001475	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0001476	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0001477	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0001478	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0001479	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0001480	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0001481	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0001482	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0001483	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0001484	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0001485	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0001486	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0001487	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0001488	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0001489	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0001490	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0001491	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0001492	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0001493	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0001494	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0001495	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0001496	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0001497	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0001498	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0001499	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0001500	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0001501	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0001502	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0001503	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0001504	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0001505	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0001506	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0001507	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0001508	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0001509	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0001510	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0001511	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0001512	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0001513	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0001514	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0001515	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0001516	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0001517	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0001518	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0001519	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0001520	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0001521	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0001522	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0001523	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0001524	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0001525	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0001526	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0001527	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0001528	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0001529	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0001530	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0001531	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0001532	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0001533	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0001534	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0001535	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0001536	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0001537	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0001538	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0001539	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0001540	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0001541	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0001542	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0001543	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0001544	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0001545	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0001546	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0001547	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0001548	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0001549	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0001550	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0001551	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0001552	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

```

** Emission Rate = 7.13E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION	L0001553	VOLUME	487151.212	3729658.576	441.00
LOCATION	L0001554	VOLUME	487161.575	3729658.648	441.00
LOCATION	L0001555	VOLUME	487171.938	3729658.720	441.00
LOCATION	L0001556	VOLUME	487182.301	3729658.792	441.00
LOCATION	L0001557	VOLUME	487192.664	3729658.863	441.00
LOCATION	L0001558	VOLUME	487203.027	3729658.935	441.00
LOCATION	L0001559	VOLUME	487213.390	3729659.007	441.00
LOCATION	L0001560	VOLUME	487223.753	3729659.079	441.00
LOCATION	L0001561	VOLUME	487234.115	3729659.150	441.00
LOCATION	L0001562	VOLUME	487244.478	3729659.222	441.00
LOCATION	L0001563	VOLUME	487254.841	3729659.294	441.00
LOCATION	L0001564	VOLUME	487265.204	3729659.366	441.00
LOCATION	L0001565	VOLUME	487275.567	3729659.437	441.00
LOCATION	L0001566	VOLUME	487285.930	3729659.509	441.00
LOCATION	L0001567	VOLUME	487296.293	3729659.581	441.00
LOCATION	L0001568	VOLUME	487306.656	3729659.653	441.00
LOCATION	L0001569	VOLUME	487317.019	3729659.724	441.00
LOCATION	L0001570	VOLUME	487327.382	3729659.796	441.00
LOCATION	L0001571	VOLUME	487337.745	3729659.868	441.00
LOCATION	L0001572	VOLUME	487348.108	3729659.940	441.00
LOCATION	L0001573	VOLUME	487358.471	3729660.011	441.00
LOCATION	L0001574	VOLUME	487368.834	3729660.083	441.00
LOCATION	L0001575	VOLUME	487379.197	3729660.155	441.00
LOCATION	L0001576	VOLUME	487389.560	3729660.227	441.00
LOCATION	L0001577	VOLUME	487399.923	3729660.298	440.83
LOCATION	L0001578	VOLUME	487410.286	3729660.370	440.65
LOCATION	L0001579	VOLUME	487420.649	3729660.442	440.48
LOCATION	L0001580	VOLUME	487431.012	3729660.514	440.49
LOCATION	L0001581	VOLUME	487441.375	3729660.585	440.49
LOCATION	L0001582	VOLUME	487451.737	3729660.657	440.52
LOCATION	L0001583	VOLUME	487462.100	3729660.729	440.69
LOCATION	L0001584	VOLUME	487472.463	3729660.801	440.87
LOCATION	L0001585	VOLUME	487482.826	3729660.872	441.00
LOCATION	L0001586	VOLUME	487493.189	3729660.944	441.00
LOCATION	L0001587	VOLUME	487503.552	3729661.016	441.00
LOCATION	L0001588	VOLUME	487513.915	3729661.088	441.00
LOCATION	L0001589	VOLUME	487524.278	3729661.159	441.00
LOCATION	L0001590	VOLUME	487534.641	3729661.231	441.00
LOCATION	L0001591	VOLUME	487545.004	3729661.303	441.00
LOCATION	L0001592	VOLUME	487555.367	3729661.375	441.00
LOCATION	L0001593	VOLUME	487565.730	3729661.446	441.00
LOCATION	L0001594	VOLUME	487576.093	3729661.518	441.00
LOCATION	L0001595	VOLUME	487586.456	3729661.590	441.00
LOCATION	L0001596	VOLUME	487596.819	3729661.662	441.00
LOCATION	L0001597	VOLUME	487607.182	3729661.733	441.00
LOCATION	L0001598	VOLUME	487617.545	3729661.805	441.00
LOCATION	L0001599	VOLUME	487627.908	3729661.877	441.00

LOCATION	L0001600	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0001601	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0001602	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0001603	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0001604	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0001605	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0001606	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0001607	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0001608	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0001609	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0001610	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0001611	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0001612	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0001613	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0001614	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0001615	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0001616	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0001617	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0001618	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0001619	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0001620	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0001621	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0001622	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0001623	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0001624	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0001625	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0001626	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0001627	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0001628	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0001629	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0001630	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0001631	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0001632	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0001633	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0001634	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 7.14E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0001635	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0001636	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0001637	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0001638	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0001639	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0001640	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0001641	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0001642	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0001643	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0001644	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0001645	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0001646	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0001647	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0001648	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0001649	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0001650	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0001651	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0001652	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0001653	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0001654	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0001655	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0001656	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0001657	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0001658	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0001659	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0001660	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0001661	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0001662	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0001663	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0001664	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0001665	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0001666	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0001667	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0001668	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0001669	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0001670	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0001671	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0001672	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0001673	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0001674	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0001675	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0001676	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0001677	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0001678	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0001679	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0001680	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0001681	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0001682	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0001683	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0001684	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0001685	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0001686	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0001687	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0001688	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0001689	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0001690	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0001691	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0001692	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0001693	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0001694	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0001695	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0001696	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0001697	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0001698	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0001699	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0001700	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0001701	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0001702	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0001703	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0001704	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0001705	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0001706	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0001707	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0001708	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0001709	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0001710	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0001711	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0001712	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0001713	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0001714	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0001715	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0001716	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 7.51E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0001717	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0001718	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0001719	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0001720	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0001721	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0001722	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0001723	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0001724	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0001725	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0001726	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0001727	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0001728	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0001729	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0001730	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0001731	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0001732	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0001733	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0001734	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0001735	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0001736	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0001737	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0001738	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0001739	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0001740	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0001741	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0001742	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0001743	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0001744	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0001745	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0001746	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0001747	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0001748	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0001749	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0001750	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0001751	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0001752	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0001753	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0001754	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0001755	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0001756	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0001757	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0001758	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0001759	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0001760	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0001761	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0001762	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0001763	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0001764	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0001765	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0001766	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0001767	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0001768	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0001769	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0001770	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0001771	VOLUME	487142.132	3729445.960	440.00
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LOCATION	L0001773	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0001774	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0001775	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0001776	VOLUME	487142.513	3729427.676	440.00
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LOCATION	L0001781	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0001782	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0001783	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0001784	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0001785	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0001786	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0001787	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0001788	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0001789	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0001790	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0001791	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0001792	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0001793	VOLUME	487143.808	3729365.510	440.00
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LOCATION	L0001796	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0001797	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0001798	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0001799	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0001800	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0001801	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0001802	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0001803	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0001804	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0001805	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0001806	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0001807	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0001808	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0001809	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0001810	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0001811	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0001812	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0001813	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0001814	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0001815	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0001816	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0001817	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0001818	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0001819	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0001820	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0001821	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0001822	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0001823	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0001824	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0001825	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0001826	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0001827	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0001828	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0001829	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0001830	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0001831	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0001832	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0001833	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0001834	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0001835	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0001836	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0001837	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0001838	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0001839	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0001840	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0001841	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0001842	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0001843	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0001844	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0001845	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0001846	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0001847	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0001848	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0001849	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0001850	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0001851	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0001852	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0001853	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.0035	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0001451	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001452	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001453	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001454	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001455	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001456	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001457	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001458	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001459	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001460	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001461	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001462	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001463	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001464	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001465	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001466	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001467	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001468	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001469	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001470	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001471	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001472	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001473	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001474	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001475	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001476	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001477	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001478	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001479	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001480	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001481	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001482	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001483	0.000000008716	0.00	4.82	1.70

[illegible]

SRCPARAM	L0001538	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001539	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001540	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001541	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001542	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001543	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001544	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001545	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001546	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001547	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001548	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001549	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001550	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001551	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001552	0.0000000008716	0.00	4.82	1.70

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** LINE VOLUME Source ID = RDSIMPE
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[illegible]

[illegible]

[illegible]

[illegible]

* *

SRCPARAM IDLE	2.53E-07	3.658	366.000	50	0.1

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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED UnMit2026.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST UNMIT2026.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL UNMIT2026.AD\PE00GALL.PLT 32
    SUMMFILE UnMit2026.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN   CoordinateSystemUTM
** DESCPTN   UTM: Universal Transverse Mercator
** DATUM     World Geodetic System 1984
** DTMRGN    Global Definition
** UNITS      m
** ZONE       11
** ZONEINX    0
**

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* AERMOD (22112): Menifee TTM No 38625 - Year 2026 Construction DPM UnMitigated 09/23/23
 * AERMET (16216): 12:47:27

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
 * PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
 * FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.01142	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.01040	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.01489	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.02140	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.01925	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.03197	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.03178	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.02631	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.03926	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.04340	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.03841	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.01107	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Meniffee\AERMOD\Mit2026\Mit2026.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Meniffee TTM No 38625 - Year 2026 Construction DPM Mitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL Mit2026.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840       440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 8.89E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
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  LOCATION L0001451      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0001452      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0001453	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0001454	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0001455	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0001456	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0001457	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0001458	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0001459	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0001460	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0001461	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0001462	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0001463	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0001464	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0001465	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0001466	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0001467	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0001468	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0001469	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0001470	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0001471	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0001472	VOLUME	487344.148	3730175.699	442.66
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LOCATION	L0001484	VOLUME	487344.837	3730051.343	442.00
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LOCATION	L0001499	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0001500	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0001501	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0001502	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0001503	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0001504	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0001505	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0001506	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0001507	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0001508	VOLUME	487346.214	3729802.630	441.00
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LOCATION	L0001511	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0001512	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0001513	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0001514	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0001515	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0001516	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0001517	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0001518	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0001519	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0001520	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0001521	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0001522	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0001523	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0001524	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0001525	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0001526	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0001527	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0001528	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0001529	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0001530	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0001531	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0001532	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0001533	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0001534	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0001535	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0001536	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0001537	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0001538	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0001539	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0001540	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0001541	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0001542	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0001543	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0001544	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0001545	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0001546	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0001547	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0001548	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0001549	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0001550	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0001551	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0001552	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

```

** Emission Rate = 7.13E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION	L0001553	VOLUME	487151.212	3729658.576	441.00
LOCATION	L0001554	VOLUME	487161.575	3729658.648	441.00
LOCATION	L0001555	VOLUME	487171.938	3729658.720	441.00
LOCATION	L0001556	VOLUME	487182.301	3729658.792	441.00
LOCATION	L0001557	VOLUME	487192.664	3729658.863	441.00
LOCATION	L0001558	VOLUME	487203.027	3729658.935	441.00
LOCATION	L0001559	VOLUME	487213.390	3729659.007	441.00
LOCATION	L0001560	VOLUME	487223.753	3729659.079	441.00
LOCATION	L0001561	VOLUME	487234.115	3729659.150	441.00
LOCATION	L0001562	VOLUME	487244.478	3729659.222	441.00
LOCATION	L0001563	VOLUME	487254.841	3729659.294	441.00
LOCATION	L0001564	VOLUME	487265.204	3729659.366	441.00
LOCATION	L0001565	VOLUME	487275.567	3729659.437	441.00
LOCATION	L0001566	VOLUME	487285.930	3729659.509	441.00
LOCATION	L0001567	VOLUME	487296.293	3729659.581	441.00
LOCATION	L0001568	VOLUME	487306.656	3729659.653	441.00
LOCATION	L0001569	VOLUME	487317.019	3729659.724	441.00
LOCATION	L0001570	VOLUME	487327.382	3729659.796	441.00
LOCATION	L0001571	VOLUME	487337.745	3729659.868	441.00
LOCATION	L0001572	VOLUME	487348.108	3729659.940	441.00
LOCATION	L0001573	VOLUME	487358.471	3729660.011	441.00
LOCATION	L0001574	VOLUME	487368.834	3729660.083	441.00
LOCATION	L0001575	VOLUME	487379.197	3729660.155	441.00
LOCATION	L0001576	VOLUME	487389.560	3729660.227	441.00
LOCATION	L0001577	VOLUME	487399.923	3729660.298	440.83
LOCATION	L0001578	VOLUME	487410.286	3729660.370	440.65
LOCATION	L0001579	VOLUME	487420.649	3729660.442	440.48
LOCATION	L0001580	VOLUME	487431.012	3729660.514	440.49
LOCATION	L0001581	VOLUME	487441.375	3729660.585	440.49
LOCATION	L0001582	VOLUME	487451.737	3729660.657	440.52
LOCATION	L0001583	VOLUME	487462.100	3729660.729	440.69
LOCATION	L0001584	VOLUME	487472.463	3729660.801	440.87
LOCATION	L0001585	VOLUME	487482.826	3729660.872	441.00
LOCATION	L0001586	VOLUME	487493.189	3729660.944	441.00
LOCATION	L0001587	VOLUME	487503.552	3729661.016	441.00
LOCATION	L0001588	VOLUME	487513.915	3729661.088	441.00
LOCATION	L0001589	VOLUME	487524.278	3729661.159	441.00
LOCATION	L0001590	VOLUME	487534.641	3729661.231	441.00
LOCATION	L0001591	VOLUME	487545.004	3729661.303	441.00
LOCATION	L0001592	VOLUME	487555.367	3729661.375	441.00
LOCATION	L0001593	VOLUME	487565.730	3729661.446	441.00
LOCATION	L0001594	VOLUME	487576.093	3729661.518	441.00
LOCATION	L0001595	VOLUME	487586.456	3729661.590	441.00
LOCATION	L0001596	VOLUME	487596.819	3729661.662	441.00
LOCATION	L0001597	VOLUME	487607.182	3729661.733	441.00
LOCATION	L0001598	VOLUME	487617.545	3729661.805	441.00
LOCATION	L0001599	VOLUME	487627.908	3729661.877	441.00

LOCATION	L0001600	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0001601	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0001602	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0001603	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0001604	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0001605	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0001606	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0001607	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0001608	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0001609	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0001610	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0001611	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0001612	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0001613	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0001614	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0001615	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0001616	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0001617	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0001618	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0001619	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0001620	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0001621	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0001622	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0001623	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0001624	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0001625	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0001626	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0001627	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0001628	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0001629	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0001630	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0001631	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0001632	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0001633	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0001634	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 7.14E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0001635	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0001636	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0001637	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0001638	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0001639	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0001640	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0001641	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0001642	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0001643	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0001644	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0001645	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0001646	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0001647	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0001648	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0001649	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0001650	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0001651	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0001652	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0001653	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0001654	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0001655	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0001656	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0001657	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0001658	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0001659	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0001660	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0001661	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0001662	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0001663	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0001664	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0001665	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0001666	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0001667	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0001668	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0001669	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0001670	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0001671	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0001672	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0001673	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0001674	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0001675	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0001676	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0001677	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0001678	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0001679	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0001680	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0001681	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0001682	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0001683	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0001684	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0001685	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0001686	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0001687	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0001688	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0001689	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0001690	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0001691	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0001692	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0001693	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0001694	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0001695	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0001696	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0001697	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0001698	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0001699	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0001700	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0001701	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0001702	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0001703	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0001704	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0001705	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0001706	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0001707	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0001708	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0001709	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0001710	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0001711	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0001712	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0001713	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0001714	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0001715	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0001716	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 7.51E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0001717	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0001718	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0001719	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0001720	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0001721	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0001722	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0001723	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0001724	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0001725	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0001726	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0001727	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0001728	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0001729	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0001730	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0001731	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0001732	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0001733	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0001734	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0001735	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0001736	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0001737	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0001738	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0001739	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0001740	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0001741	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0001742	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0001743	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0001744	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0001745	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0001746	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0001747	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0001748	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0001749	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0001750	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0001751	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0001752	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0001753	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0001754	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0001755	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0001756	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0001757	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0001758	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0001759	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0001760	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0001761	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0001762	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0001763	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0001764	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0001765	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0001766	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0001767	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0001768	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0001769	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0001770	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0001771	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0001772	VOLUME	487142.209	3729442.303	440.00
LOCATION	L0001773	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0001774	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0001775	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0001776	VOLUME	487142.513	3729427.676	440.00
LOCATION	L0001777	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0001778	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0001779	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0001780	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0001781	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0001782	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0001783	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0001784	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0001785	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0001786	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0001787	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0001788	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0001789	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0001790	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0001791	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0001792	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0001793	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0001794	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0001795	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0001796	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0001797	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0001798	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0001799	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0001800	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0001801	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0001802	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0001803	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0001804	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0001805	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0001806	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0001807	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0001808	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0001809	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0001810	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0001811	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0001812	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0001813	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0001814	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0001815	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0001816	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0001817	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0001818	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0001819	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0001820	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0001821	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0001822	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0001823	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0001824	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0001825	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0001826	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0001827	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0001828	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0001829	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0001830	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0001831	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0001832	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0001833	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0001834	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0001835	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0001836	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0001837	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0001838	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0001839	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0001840	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0001841	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0001842	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0001843	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0001844	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0001845	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0001846	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0001847	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0001848	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0001849	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0001850	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0001851	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0001852	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0001853	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.00098	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0001451	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001452	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001453	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001454	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001455	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001456	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001457	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001458	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001459	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001460	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001461	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001462	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001463	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001464	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001465	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001466	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001467	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001468	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001469	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001470	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001471	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001472	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001473	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001474	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001475	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001476	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001477	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001478	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001479	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001480	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001481	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001482	0.000000008716	0.00	4.82	1.70
SRCPARAM	L0001483	0.000000008716	0.00	4.82	1.70

[illegible]

SRCPARAM	L0001538	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001539	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001540	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001541	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001542	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001543	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001544	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001545	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001546	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001547	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001548	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001549	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001550	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001551	0.0000000008716	0.00	4.82	1.70
SRCPARAM	L0001552	0.0000000008716	0.00	4.82	1.70

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** LINE VOLUME Source ID = RDSIMPE
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[illegible]

[illegible]

[illegible]

[illegible]

* *

SRCPARAM IDLE	2.53E-07	3.658	366.000	50	0.1

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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED Mit2026.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST MIT2026.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL MIT2026.AD\PE00GALL.PLT 32
    SUMMFILE Mit2026.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
**

```

* AERMOD (22112): Menifee TTM No 38625 - Year 2026 Construction DPM Mitigated 09/23/23
* AERMET (16216): 12:22:28

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.00321	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00292	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.00422	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.00605	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.00545	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.00901	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.00897	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.00742	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.01102	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.01217	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.01077	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00311	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2

APPENDIX G

AERMOD Model Year 2027 Construction DPM Printouts

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Menifee\AERMOD\UnMit2027\UnMit2027.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Menifee TTM No 38625 - Year 2027 Construction DPM UnMitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL UnMit2027.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840       440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 8.7E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
** -----
  LOCATION L0001854      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0001855      VOLUME    487343.000 3730382.960 444.00

```

LOCATION	L0001856	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0001857	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0001858	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0001859	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0001860	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0001861	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0001862	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0001863	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0001864	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0001865	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0001866	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0001867	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0001868	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0001869	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0001870	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0001871	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0001872	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0001873	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0001874	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0001875	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0001876	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0001877	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0001878	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0001879	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0001880	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0001881	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0001882	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0001883	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0001884	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0001885	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0001886	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0001887	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0001888	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0001889	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0001890	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0001891	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0001892	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0001893	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0001894	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0001895	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0001896	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0001897	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0001898	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0001899	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0001900	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0001901	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0001902	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0001903	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0001904	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0001905	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0001906	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0001907	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0001908	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0001909	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0001910	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0001911	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0001912	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0001913	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0001914	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0001915	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0001916	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0001917	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0001918	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0001919	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0001920	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0001921	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0001922	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0001923	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0001924	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0001925	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0001926	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0001927	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0001928	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0001929	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0001930	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0001931	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0001932	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0001933	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0001934	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0001935	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0001936	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0001937	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0001938	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0001939	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0001940	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0001941	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0001942	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0001943	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0001944	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0001945	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0001946	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0001947	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0001948	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0001949	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0001950	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0001951	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0001952	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0001953	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0001954	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0001955	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent


```

** Emission Rate = 6.97E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION	L0001956	VOLUME	487151.212	3729658.576	441.00
LOCATION	L0001957	VOLUME	487161.575	3729658.648	441.00
LOCATION	L0001958	VOLUME	487171.938	3729658.720	441.00
LOCATION	L0001959	VOLUME	487182.301	3729658.792	441.00
LOCATION	L0001960	VOLUME	487192.664	3729658.863	441.00
LOCATION	L0001961	VOLUME	487203.027	3729658.935	441.00
LOCATION	L0001962	VOLUME	487213.390	3729659.007	441.00
LOCATION	L0001963	VOLUME	487223.753	3729659.079	441.00
LOCATION	L0001964	VOLUME	487234.115	3729659.150	441.00
LOCATION	L0001965	VOLUME	487244.478	3729659.222	441.00
LOCATION	L0001966	VOLUME	487254.841	3729659.294	441.00
LOCATION	L0001967	VOLUME	487265.204	3729659.366	441.00
LOCATION	L0001968	VOLUME	487275.567	3729659.437	441.00
LOCATION	L0001969	VOLUME	487285.930	3729659.509	441.00
LOCATION	L0001970	VOLUME	487296.293	3729659.581	441.00
LOCATION	L0001971	VOLUME	487306.656	3729659.653	441.00
LOCATION	L0001972	VOLUME	487317.019	3729659.724	441.00
LOCATION	L0001973	VOLUME	487327.382	3729659.796	441.00
LOCATION	L0001974	VOLUME	487337.745	3729659.868	441.00
LOCATION	L0001975	VOLUME	487348.108	3729659.940	441.00
LOCATION	L0001976	VOLUME	487358.471	3729660.011	441.00
LOCATION	L0001977	VOLUME	487368.834	3729660.083	441.00
LOCATION	L0001978	VOLUME	487379.197	3729660.155	441.00
LOCATION	L0001979	VOLUME	487389.560	3729660.227	441.00
LOCATION	L0001980	VOLUME	487399.923	3729660.298	440.83
LOCATION	L0001981	VOLUME	487410.286	3729660.370	440.65
LOCATION	L0001982	VOLUME	487420.649	3729660.442	440.48
LOCATION	L0001983	VOLUME	487431.012	3729660.514	440.49
LOCATION	L0001984	VOLUME	487441.375	3729660.585	440.49
LOCATION	L0001985	VOLUME	487451.737	3729660.657	440.52
LOCATION	L0001986	VOLUME	487462.100	3729660.729	440.69
LOCATION	L0001987	VOLUME	487472.463	3729660.801	440.87
LOCATION	L0001988	VOLUME	487482.826	3729660.872	441.00
LOCATION	L0001989	VOLUME	487493.189	3729660.944	441.00
LOCATION	L0001990	VOLUME	487503.552	3729661.016	441.00
LOCATION	L0001991	VOLUME	487513.915	3729661.088	441.00
LOCATION	L0001992	VOLUME	487524.278	3729661.159	441.00
LOCATION	L0001993	VOLUME	487534.641	3729661.231	441.00
LOCATION	L0001994	VOLUME	487545.004	3729661.303	441.00
LOCATION	L0001995	VOLUME	487555.367	3729661.375	441.00
LOCATION	L0001996	VOLUME	487565.730	3729661.446	441.00
LOCATION	L0001997	VOLUME	487576.093	3729661.518	441.00
LOCATION	L0001998	VOLUME	487586.456	3729661.590	441.00
LOCATION	L0001999	VOLUME	487596.819	3729661.662	441.00
LOCATION	L0002000	VOLUME	487607.182	3729661.733	441.00
LOCATION	L0002001	VOLUME	487617.545	3729661.805	441.00
LOCATION	L0002002	VOLUME	487627.908	3729661.877	441.00

LOCATION	L0002003	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0002004	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0002005	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0002006	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0002007	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0002008	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0002009	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0002010	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0002011	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0002012	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0002013	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0002014	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0002015	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0002016	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0002017	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0002018	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0002019	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0002020	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0002021	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0002022	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0002023	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0002024	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0002025	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0002026	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0002027	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0002028	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0002029	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0002030	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0002031	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0002032	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0002033	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0002034	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0002035	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0002036	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0002037	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 6.98E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0002038	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0002039	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0002040	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0002041	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0002042	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0002043	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0002044	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0002045	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0002046	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0002047	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0002048	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0002049	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0002050	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0002051	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0002052	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0002053	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0002054	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0002055	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0002056	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0002057	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0002058	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0002059	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0002060	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0002061	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0002062	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0002063	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0002064	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0002065	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0002066	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0002067	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0002068	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0002069	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0002070	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0002071	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0002072	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0002073	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0002074	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0002075	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0002076	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0002077	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0002078	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0002079	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0002080	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0002081	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0002082	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0002083	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0002084	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0002085	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0002086	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0002087	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0002088	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0002089	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0002090	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0002091	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0002092	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0002093	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0002094	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0002095	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0002096	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0002097	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0002098	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0002099	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0002100	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0002101	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0002102	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0002103	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0002104	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0002105	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0002106	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0002107	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0002108	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0002109	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0002110	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0002111	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0002112	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0002113	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0002114	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0002115	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0002116	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0002117	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0002118	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0002119	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 6.95E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0002120	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0002121	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0002122	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0002123	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0002124	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0002125	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0002126	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0002127	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0002128	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0002129	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0002130	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0002131	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0002132	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0002133	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0002134	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0002135	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0002136	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0002137	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0002138	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0002139	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0002140	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0002141	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0002142	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0002143	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0002144	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0002145	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0002146	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0002147	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0002148	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0002149	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0002150	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0002151	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0002152	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0002153	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0002154	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0002155	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0002156	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0002157	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0002158	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0002159	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0002160	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0002161	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0002162	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0002163	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0002164	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0002165	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0002166	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0002167	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0002168	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0002169	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0002170	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0002171	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0002172	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0002173	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0002174	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0002175	VOLUME	487142.209	3729442.303	440.00
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LOCATION	L0002180	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0002181	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0002182	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0002183	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0002184	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0002185	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0002186	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0002187	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0002188	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0002189	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0002190	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0002191	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0002192	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0002193	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0002194	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0002195	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0002196	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0002197	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0002198	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0002199	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0002200	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0002201	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0002202	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0002203	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0002204	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0002205	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0002206	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0002207	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0002208	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0002209	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0002210	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0002211	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0002212	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0002213	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0002214	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0002215	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0002216	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0002217	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0002218	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0002219	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0002220	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0002221	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0002222	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0002223	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0002224	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0002225	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0002226	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0002227	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0002228	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0002229	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0002230	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0002231	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0002232	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0002233	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0002234	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0002235	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0002236	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0002237	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0002238	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0002239	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0002240	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0002241	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0002242	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0002243	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0002244	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0002245	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0002246	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0002247	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0002248	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0002249	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0002250	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0002251	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0002252	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0002253	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0002254	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0002255	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0002256	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.00308	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0001854	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001855	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001856	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001857	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001858	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001859	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001860	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001861	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001862	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001863	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001864	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001865	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001866	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001867	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001868	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001869	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001870	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001871	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001872	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001873	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001874	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001875	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001876	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001877	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001878	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001879	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001880	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001881	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001882	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001883	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001884	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001885	0.000000008529	0.00	4.82	1.70
SRCPARAM	L0001886	0.000000008529	0.00	4.82	1.70

[illegible]

SRCPARAM	L0001941	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001942	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001943	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001944	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001945	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001946	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001947	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001948	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001949	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001950	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001951	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001952	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001953	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001954	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001955	0.0000000008529	0.00	4.82	1.70

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** LINE VOLUME Source ID = RDSIMPE
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SRCPARAM	L0001956	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001957	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001958	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001959	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001960	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001961	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001962	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001963	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001964	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001965	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001966	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001967	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001968	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001969	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001970	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001971	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001972	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001973	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001974	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001975	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001976	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001977	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001978	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001979	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001980	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001981	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001982	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001983	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001984	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001985	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001986	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001987	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001988	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001989	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001990	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001991	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001992	0.0000000085	0.00	4.82	0.85

[illegible]

[illegible]

[illegible]

SRCPARAM IDLE	2.33E-07	3.658	366.000	50	0.1

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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED UnMit2027.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST UNMIT2027.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL UNMIT2027.AD\PE00GALL.PLT 32
    SUMMFILE UnMit2027.sum
OU FINISHED
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*****
** Project Parameters
*****
** PROJCTN   CoordinateSystemUTM
** DESCPTN   UTM: Universal Transverse Mercator
** DATUM      World Geodetic System 1984
** DTMRGN     Global Definition
** UNITS       m
** ZONE        11
** ZONEINX     0
**

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* AERMOD (22112): Menifee TTM No 38625 - Year 2027 Construction DPM UnMitigated 09/23/23
 * AERMET (16216): 12:54:35

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
 * PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
 * FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.01005	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00915	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.01311	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.01884	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.01695	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.02814	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.02797	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.02316	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.03455	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.03819	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.03380	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00974	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2


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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Menifee\AERMOD\Mit2027\Mit2027.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Menifee TTM No 38625 - Year 2027 Construction DPM Mitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL Mit2027.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840       440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 8.7E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
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  LOCATION L0001854      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0001855      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0001856	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0001857	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0001858	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0001859	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0001860	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0001861	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0001862	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0001863	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0001864	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0001865	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0001866	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0001867	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0001868	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0001869	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0001870	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0001871	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0001872	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0001873	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0001874	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0001875	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0001876	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0001877	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0001878	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0001879	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0001880	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0001881	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0001882	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0001883	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0001884	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0001885	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0001886	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0001887	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0001888	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0001889	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0001890	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0001891	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0001892	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0001893	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0001894	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0001895	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0001896	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0001897	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0001898	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0001899	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0001900	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0001901	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0001902	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0001903	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0001904	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0001905	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0001906	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0001907	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0001908	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0001909	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0001910	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0001911	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0001912	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0001913	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0001914	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0001915	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0001916	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0001917	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0001918	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0001919	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0001920	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0001921	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0001922	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0001923	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0001924	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0001925	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0001926	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0001927	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0001928	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0001929	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0001930	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0001931	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0001932	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0001933	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0001934	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0001935	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0001936	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0001937	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0001938	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0001939	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0001940	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0001941	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0001942	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0001943	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0001944	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0001945	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0001946	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0001947	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0001948	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0001949	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0001950	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0001951	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0001952	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0001953	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0001954	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0001955	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

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** Emission Rate = 6.97E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION	L0001956	VOLUME	487151.212	3729658.576	441.00
LOCATION	L0001957	VOLUME	487161.575	3729658.648	441.00
LOCATION	L0001958	VOLUME	487171.938	3729658.720	441.00
LOCATION	L0001959	VOLUME	487182.301	3729658.792	441.00
LOCATION	L0001960	VOLUME	487192.664	3729658.863	441.00
LOCATION	L0001961	VOLUME	487203.027	3729658.935	441.00
LOCATION	L0001962	VOLUME	487213.390	3729659.007	441.00
LOCATION	L0001963	VOLUME	487223.753	3729659.079	441.00
LOCATION	L0001964	VOLUME	487234.115	3729659.150	441.00
LOCATION	L0001965	VOLUME	487244.478	3729659.222	441.00
LOCATION	L0001966	VOLUME	487254.841	3729659.294	441.00
LOCATION	L0001967	VOLUME	487265.204	3729659.366	441.00
LOCATION	L0001968	VOLUME	487275.567	3729659.437	441.00
LOCATION	L0001969	VOLUME	487285.930	3729659.509	441.00
LOCATION	L0001970	VOLUME	487296.293	3729659.581	441.00
LOCATION	L0001971	VOLUME	487306.656	3729659.653	441.00
LOCATION	L0001972	VOLUME	487317.019	3729659.724	441.00
LOCATION	L0001973	VOLUME	487327.382	3729659.796	441.00
LOCATION	L0001974	VOLUME	487337.745	3729659.868	441.00
LOCATION	L0001975	VOLUME	487348.108	3729659.940	441.00
LOCATION	L0001976	VOLUME	487358.471	3729660.011	441.00
LOCATION	L0001977	VOLUME	487368.834	3729660.083	441.00
LOCATION	L0001978	VOLUME	487379.197	3729660.155	441.00
LOCATION	L0001979	VOLUME	487389.560	3729660.227	441.00
LOCATION	L0001980	VOLUME	487399.923	3729660.298	440.83
LOCATION	L0001981	VOLUME	487410.286	3729660.370	440.65
LOCATION	L0001982	VOLUME	487420.649	3729660.442	440.48
LOCATION	L0001983	VOLUME	487431.012	3729660.514	440.49
LOCATION	L0001984	VOLUME	487441.375	3729660.585	440.49
LOCATION	L0001985	VOLUME	487451.737	3729660.657	440.52
LOCATION	L0001986	VOLUME	487462.100	3729660.729	440.69
LOCATION	L0001987	VOLUME	487472.463	3729660.801	440.87
LOCATION	L0001988	VOLUME	487482.826	3729660.872	441.00
LOCATION	L0001989	VOLUME	487493.189	3729660.944	441.00
LOCATION	L0001990	VOLUME	487503.552	3729661.016	441.00
LOCATION	L0001991	VOLUME	487513.915	3729661.088	441.00
LOCATION	L0001992	VOLUME	487524.278	3729661.159	441.00
LOCATION	L0001993	VOLUME	487534.641	3729661.231	441.00
LOCATION	L0001994	VOLUME	487545.004	3729661.303	441.00
LOCATION	L0001995	VOLUME	487555.367	3729661.375	441.00
LOCATION	L0001996	VOLUME	487565.730	3729661.446	441.00
LOCATION	L0001997	VOLUME	487576.093	3729661.518	441.00
LOCATION	L0001998	VOLUME	487586.456	3729661.590	441.00
LOCATION	L0001999	VOLUME	487596.819	3729661.662	441.00
LOCATION	L0002000	VOLUME	487607.182	3729661.733	441.00
LOCATION	L0002001	VOLUME	487617.545	3729661.805	441.00
LOCATION	L0002002	VOLUME	487627.908	3729661.877	441.00

LOCATION	L0002003	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0002004	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0002005	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0002006	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0002007	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0002008	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0002009	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0002010	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0002011	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0002012	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0002013	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0002014	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0002015	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0002016	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0002017	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0002018	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0002019	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0002020	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0002021	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0002022	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0002023	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0002024	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0002025	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0002026	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0002027	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0002028	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0002029	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0002030	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0002031	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0002032	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0002033	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0002034	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0002035	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0002036	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0002037	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 6.98E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0002038	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0002039	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0002040	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0002041	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0002042	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0002043	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0002044	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0002045	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0002046	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0002047	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0002048	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0002049	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0002050	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0002051	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0002052	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0002053	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0002054	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0002055	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0002056	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0002057	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0002058	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0002059	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0002060	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0002061	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0002062	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0002063	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0002064	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0002065	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0002066	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0002067	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0002068	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0002069	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0002070	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0002071	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0002072	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0002073	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0002074	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0002075	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0002076	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0002077	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0002078	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0002079	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0002080	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0002081	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0002082	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0002083	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0002084	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0002085	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0002086	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0002087	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0002088	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0002089	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0002090	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0002091	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0002092	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0002093	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0002094	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0002095	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0002096	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0002097	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0002098	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0002099	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0002100	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0002101	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0002102	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0002103	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0002104	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0002105	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0002106	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0002107	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0002108	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0002109	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0002110	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0002111	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0002112	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0002113	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0002114	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0002115	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0002116	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0002117	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0002118	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0002119	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 6.95E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0002120	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0002121	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0002122	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0002123	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0002124	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0002125	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0002126	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0002127	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0002128	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0002129	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0002130	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0002131	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0002132	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0002133	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0002134	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0002135	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0002136	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0002137	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0002138	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0002139	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0002140	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0002141	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0002142	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0002143	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0002144	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0002145	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0002146	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0002147	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0002148	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0002149	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0002150	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0002151	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0002152	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0002153	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0002154	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0002155	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0002156	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0002157	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0002158	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0002159	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0002160	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0002161	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0002162	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0002163	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0002164	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0002165	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0002166	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0002167	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0002168	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0002169	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0002170	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0002171	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0002172	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0002173	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0002174	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0002175	VOLUME	487142.209	3729442.303	440.00
LOCATION	L0002176	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0002177	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0002178	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0002179	VOLUME	487142.513	3729427.676	440.00
LOCATION	L0002180	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0002181	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0002182	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0002183	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0002184	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0002185	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0002186	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0002187	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0002188	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0002189	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0002190	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0002191	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0002192	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0002193	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0002194	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0002195	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0002196	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0002197	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0002198	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0002199	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0002200	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0002201	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0002202	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0002203	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0002204	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0002205	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0002206	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0002207	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0002208	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0002209	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0002210	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0002211	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0002212	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0002213	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0002214	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0002215	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0002216	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0002217	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0002218	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0002219	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0002220	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0002221	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0002222	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0002223	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0002224	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0002225	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0002226	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0002227	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0002228	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0002229	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0002230	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0002231	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0002232	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0002233	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0002234	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0002235	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0002236	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0002237	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0002238	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0002239	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0002240	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0002241	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0002242	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0002243	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0002244	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0002245	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0002246	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0002247	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0002248	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0002249	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0002250	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0002251	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0002252	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0002253	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0002254	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0002255	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0002256	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP		0.00098	3.962	366.000
					50
					0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0001854		0.000000008529	0.00	4.82
SRCPARAM	L0001855		0.000000008529	0.00	4.82
SRCPARAM	L0001856		0.000000008529	0.00	4.82
SRCPARAM	L0001857		0.000000008529	0.00	4.82
SRCPARAM	L0001858		0.000000008529	0.00	4.82
SRCPARAM	L0001859		0.000000008529	0.00	4.82
SRCPARAM	L0001860		0.000000008529	0.00	4.82
SRCPARAM	L0001861		0.000000008529	0.00	4.82
SRCPARAM	L0001862		0.000000008529	0.00	4.82
SRCPARAM	L0001863		0.000000008529	0.00	4.82
SRCPARAM	L0001864		0.000000008529	0.00	4.82
SRCPARAM	L0001865		0.000000008529	0.00	4.82
SRCPARAM	L0001866		0.000000008529	0.00	4.82
SRCPARAM	L0001867		0.000000008529	0.00	4.82
SRCPARAM	L0001868		0.000000008529	0.00	4.82
SRCPARAM	L0001869		0.000000008529	0.00	4.82
SRCPARAM	L0001870		0.000000008529	0.00	4.82
SRCPARAM	L0001871		0.000000008529	0.00	4.82
SRCPARAM	L0001872		0.000000008529	0.00	4.82
SRCPARAM	L0001873		0.000000008529	0.00	4.82
SRCPARAM	L0001874		0.000000008529	0.00	4.82
SRCPARAM	L0001875		0.000000008529	0.00	4.82
SRCPARAM	L0001876		0.000000008529	0.00	4.82
SRCPARAM	L0001877		0.000000008529	0.00	4.82
SRCPARAM	L0001878		0.000000008529	0.00	4.82
SRCPARAM	L0001879		0.000000008529	0.00	4.82
SRCPARAM	L0001880		0.000000008529	0.00	4.82
SRCPARAM	L0001881		0.000000008529	0.00	4.82
SRCPARAM	L0001882		0.000000008529	0.00	4.82
SRCPARAM	L0001883		0.000000008529	0.00	4.82
SRCPARAM	L0001884		0.000000008529	0.00	4.82
SRCPARAM	L0001885		0.000000008529	0.00	4.82
SRCPARAM	L0001886		0.000000008529	0.00	4.82

[illegible]

SRCPARAM	L0001941	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001942	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001943	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001944	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001945	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001946	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001947	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001948	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001949	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001950	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001951	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001952	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001953	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001954	0.0000000008529	0.00	4.82	1.70
SRCPARAM	L0001955	0.0000000008529	0.00	4.82	1.70

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** LINE VOLUME Source ID = RDSIMPE
```

SRCPARAM	L0001956	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001957	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001958	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001959	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001960	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001961	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001962	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001963	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001964	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001965	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001966	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001967	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001968	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001969	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001970	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001971	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001972	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001973	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001974	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001975	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001976	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001977	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001978	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001979	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001980	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001981	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001982	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001983	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001984	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001985	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001986	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001987	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001988	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001989	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001990	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001991	0.0000000085	0.00	4.82	0.85
SRCPARAM	L0001992	0.0000000085	0.00	4.82	0.85

[illegible]

[illegible]

[illegible]

SRCPARAM IDLE	2.33E-07	3.658	366.000	50	0.1

```

    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED Mit2027.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST MIT2027.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL MIT2027.AD\PE00GALL.PLT 32
    SUMMFILE Mit2027.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
**

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* AERMOD (22112): Menifee TTM No 38625 - Year 2027 Construction DPM Mitigated 09/23/23
* AERMET (16216): 12:17:15

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.00321	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00292	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.00422	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.00605	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.00545	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.00901	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.00897	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.00742	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.01102	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.01217	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.01077	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00310	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2

APPENDIX H

AERMOD Model Year 2028 Construction DPM Printouts

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Menifee\AERMOD\UnMit2028\UnMit2028.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Menifee TTM No 38625 - Year 2028 Construction DPM UnMitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL UnMit2028.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840   440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 8.54E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
** -----
  LOCATION L0002257      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0002258      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0002259	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0002260	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0002261	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0002262	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0002263	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0002264	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0002265	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0002266	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0002267	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0002268	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0002269	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0002270	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0002271	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0002272	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0002273	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0002274	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0002275	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0002276	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0002277	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0002278	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0002279	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0002280	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0002281	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0002282	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0002283	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0002284	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0002285	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0002286	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0002287	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0002288	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0002289	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0002290	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0002291	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0002292	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0002293	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0002294	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0002295	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0002296	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0002297	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0002298	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0002299	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0002300	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0002301	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0002302	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0002303	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0002304	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0002305	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0002306	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0002307	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0002308	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0002309	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0002310	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0002311	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0002312	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0002313	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0002314	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0002315	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0002316	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0002317	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0002318	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0002319	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0002320	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0002321	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0002322	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0002323	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0002324	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0002325	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0002326	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0002327	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0002328	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0002329	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0002330	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0002331	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0002332	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0002333	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0002334	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0002335	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0002336	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0002337	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0002338	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0002339	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0002340	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0002341	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0002342	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0002343	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0002344	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0002345	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0002346	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0002347	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0002348	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0002349	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0002350	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0002351	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0002352	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0002353	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0002354	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0002355	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0002356	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0002357	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0002358	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

```

** Emission Rate = 6.84E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION	L0002359	VOLUME	487151.212	3729658.576	441.00
LOCATION	L0002360	VOLUME	487161.575	3729658.648	441.00
LOCATION	L0002361	VOLUME	487171.938	3729658.720	441.00
LOCATION	L0002362	VOLUME	487182.301	3729658.792	441.00
LOCATION	L0002363	VOLUME	487192.664	3729658.863	441.00
LOCATION	L0002364	VOLUME	487203.027	3729658.935	441.00
LOCATION	L0002365	VOLUME	487213.390	3729659.007	441.00
LOCATION	L0002366	VOLUME	487223.753	3729659.079	441.00
LOCATION	L0002367	VOLUME	487234.115	3729659.150	441.00
LOCATION	L0002368	VOLUME	487244.478	3729659.222	441.00
LOCATION	L0002369	VOLUME	487254.841	3729659.294	441.00
LOCATION	L0002370	VOLUME	487265.204	3729659.366	441.00
LOCATION	L0002371	VOLUME	487275.567	3729659.437	441.00
LOCATION	L0002372	VOLUME	487285.930	3729659.509	441.00
LOCATION	L0002373	VOLUME	487296.293	3729659.581	441.00
LOCATION	L0002374	VOLUME	487306.656	3729659.653	441.00
LOCATION	L0002375	VOLUME	487317.019	3729659.724	441.00
LOCATION	L0002376	VOLUME	487327.382	3729659.796	441.00
LOCATION	L0002377	VOLUME	487337.745	3729659.868	441.00
LOCATION	L0002378	VOLUME	487348.108	3729659.940	441.00
LOCATION	L0002379	VOLUME	487358.471	3729660.011	441.00
LOCATION	L0002380	VOLUME	487368.834	3729660.083	441.00
LOCATION	L0002381	VOLUME	487379.197	3729660.155	441.00
LOCATION	L0002382	VOLUME	487389.560	3729660.227	441.00
LOCATION	L0002383	VOLUME	487399.923	3729660.298	440.83
LOCATION	L0002384	VOLUME	487410.286	3729660.370	440.65
LOCATION	L0002385	VOLUME	487420.649	3729660.442	440.48
LOCATION	L0002386	VOLUME	487431.012	3729660.514	440.49
LOCATION	L0002387	VOLUME	487441.375	3729660.585	440.49
LOCATION	L0002388	VOLUME	487451.737	3729660.657	440.52
LOCATION	L0002389	VOLUME	487462.100	3729660.729	440.69
LOCATION	L0002390	VOLUME	487472.463	3729660.801	440.87
LOCATION	L0002391	VOLUME	487482.826	3729660.872	441.00
LOCATION	L0002392	VOLUME	487493.189	3729660.944	441.00
LOCATION	L0002393	VOLUME	487503.552	3729661.016	441.00
LOCATION	L0002394	VOLUME	487513.915	3729661.088	441.00
LOCATION	L0002395	VOLUME	487524.278	3729661.159	441.00
LOCATION	L0002396	VOLUME	487534.641	3729661.231	441.00
LOCATION	L0002397	VOLUME	487545.004	3729661.303	441.00
LOCATION	L0002398	VOLUME	487555.367	3729661.375	441.00
LOCATION	L0002399	VOLUME	487565.730	3729661.446	441.00
LOCATION	L0002400	VOLUME	487576.093	3729661.518	441.00
LOCATION	L0002401	VOLUME	487586.456	3729661.590	441.00
LOCATION	L0002402	VOLUME	487596.819	3729661.662	441.00
LOCATION	L0002403	VOLUME	487607.182	3729661.733	441.00
LOCATION	L0002404	VOLUME	487617.545	3729661.805	441.00
LOCATION	L0002405	VOLUME	487627.908	3729661.877	441.00

LOCATION	L0002406	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0002407	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0002408	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0002409	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0002410	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0002411	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0002412	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0002413	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0002414	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0002415	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0002416	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0002417	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0002418	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0002419	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0002420	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0002421	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0002422	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0002423	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0002424	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0002425	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0002426	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0002427	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0002428	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0002429	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0002430	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0002431	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0002432	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0002433	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0002434	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0002435	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0002436	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0002437	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0002438	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0002439	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0002440	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 6.86E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0002441	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0002442	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0002443	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0002444	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0002445	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0002446	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0002447	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0002448	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0002449	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0002450	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0002451	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0002452	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0002453	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0002454	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0002455	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0002456	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0002457	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0002458	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0002459	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0002460	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0002461	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0002462	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0002463	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0002464	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0002465	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0002466	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0002467	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0002468	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0002469	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0002470	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0002471	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0002472	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0002473	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0002474	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0002475	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0002476	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0002477	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0002478	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0002479	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0002480	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0002481	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0002482	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0002483	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0002484	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0002485	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0002486	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0002487	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0002488	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0002489	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0002490	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0002491	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0002492	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0002493	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0002494	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0002495	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0002496	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0002497	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0002498	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0002499	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0002500	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0002501	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0002502	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0002503	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0002504	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0002505	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0002506	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0002507	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0002508	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0002509	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0002510	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0002511	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0002512	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0002513	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0002514	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0002515	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0002516	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0002517	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0002518	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0002519	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0002520	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0002521	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0002522	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 6.5E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0002523	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0002524	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0002525	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0002526	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0002527	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0002528	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0002529	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0002530	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0002531	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0002532	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0002533	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0002534	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0002535	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0002536	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0002537	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0002538	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0002539	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0002540	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0002541	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0002542	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0002543	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0002544	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0002545	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0002546	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0002547	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0002548	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0002549	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0002550	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0002551	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0002552	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0002553	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0002554	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0002555	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0002556	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0002557	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0002558	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0002559	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0002560	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0002561	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0002562	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0002563	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0002564	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0002565	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0002566	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0002567	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0002568	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0002569	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0002570	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0002571	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0002572	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0002573	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0002574	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0002575	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0002576	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0002577	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0002578	VOLUME	487142.209	3729442.303	440.00
LOCATION	L0002579	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0002580	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0002581	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0002582	VOLUME	487142.513	3729427.676	440.00
LOCATION	L0002583	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0002584	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0002585	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0002586	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0002587	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0002588	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0002589	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0002590	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0002591	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0002592	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0002593	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0002594	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0002595	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0002596	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0002597	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0002598	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0002599	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0002600	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0002601	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0002602	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0002603	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0002604	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0002605	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0002606	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0002607	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0002608	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0002609	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0002610	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0002611	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0002612	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0002613	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0002614	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0002615	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0002616	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0002617	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0002618	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0002619	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0002620	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0002621	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0002622	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0002623	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0002624	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0002625	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0002626	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0002627	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0002628	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0002629	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0002630	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0002631	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0002632	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0002633	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0002634	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0002635	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0002636	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0002637	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0002638	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0002639	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0002640	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0002641	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0002642	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0002643	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0002644	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0002645	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0002646	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0002647	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0002648	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0002649	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0002650	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0002651	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0002652	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0002653	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0002654	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0002655	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0002656	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0002657	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0002658	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0002659	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.0028	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0002257	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002258	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002259	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002260	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002261	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002262	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002263	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002264	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002265	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002266	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002267	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002268	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002269	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002270	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002271	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002272	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002273	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002274	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002275	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002276	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002277	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002278	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002279	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002280	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002281	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002282	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002283	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002284	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002285	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002286	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002287	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002288	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002289	0.000000008373	0.00	4.82	1.70

[illegible]

[illegible]

* *

** LINE VOLUME Source ID = RDSIMPW

SRCPARAM	L0002441	0.000000008366	0.00	4.82	0.85
SRCPARAM	L0002442	0.000000008366	0.00	4.82	0.85
SRCPARAM	L0002443	0.000000008366	0.00	4.82	0.85
SRCPARAM	L0002444	0.000000008366	0.00	4.82	0.85
SRCPARAM	L0002445	0.000000008366	0.00	4.82	0.85
SRCPARAM	L0002446	0.000000008366	0.00	4.82	0.85
SRCPARAM	L0002447	0.000000008366	0.00	4.82	0.85

[illegible]

[illegible]

[illegible]

* *

SRCPARAM IDLE	2.18E-07	3.658	366.000	50	0.1

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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED UnMit2028.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST UNMIT2028.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL UNMIT2028.AD\PE00GALL.PLT 32
    SUMMFILE UnMit2028.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN   CoordinateSystemUTM
** DESCPTN   UTM: Universal Transverse Mercator
** DATUM     World Geodetic System 1984
** DTMRGN    Global Definition
** UNITS      m
** ZONE       11
** ZONEINX    0
**

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* AERMOD (22112): Menifee TTM No 38625 - Year 2028 Construction DPM UnMitigated 09/23/23
* AERMET (16216): 13:02:15

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.00914	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00832	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.01192	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.01714	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.01541	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.02558	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.02544	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.02106	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.03142	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.03472	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.03073	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00886	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2

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**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Meniffee\AERMOD\Mit2028\Mit2028.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Meniffee TTM No 38625 - Year 2028 Construction DPM Mitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL Mit2028.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840       440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 8.54E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
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  LOCATION L0002257      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0002258      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0002259	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0002260	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0002261	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0002262	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0002263	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0002264	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0002265	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0002266	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0002267	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0002268	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0002269	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0002270	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0002271	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0002272	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0002273	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0002274	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0002275	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0002276	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0002277	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0002278	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0002279	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0002280	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0002281	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0002282	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0002283	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0002284	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0002285	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0002286	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0002287	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0002288	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0002289	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0002290	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0002291	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0002292	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0002293	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0002294	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0002295	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0002296	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0002297	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0002298	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0002299	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0002300	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0002301	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0002302	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0002303	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0002304	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0002305	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0002306	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0002307	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0002308	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0002309	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0002310	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0002311	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0002312	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0002313	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0002314	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0002315	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0002316	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0002317	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0002318	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0002319	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0002320	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0002321	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0002322	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0002323	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0002324	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0002325	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0002326	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0002327	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0002328	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0002329	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0002330	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0002331	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0002332	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0002333	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0002334	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0002335	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0002336	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0002337	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0002338	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0002339	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0002340	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0002341	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0002342	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0002343	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0002344	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0002345	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0002346	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0002347	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0002348	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0002349	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0002350	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0002351	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0002352	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0002353	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0002354	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0002355	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0002356	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0002357	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0002358	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

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** Emission Rate = 6.84E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION	L0002359	VOLUME	487151.212	3729658.576	441.00
LOCATION	L0002360	VOLUME	487161.575	3729658.648	441.00
LOCATION	L0002361	VOLUME	487171.938	3729658.720	441.00
LOCATION	L0002362	VOLUME	487182.301	3729658.792	441.00
LOCATION	L0002363	VOLUME	487192.664	3729658.863	441.00
LOCATION	L0002364	VOLUME	487203.027	3729658.935	441.00
LOCATION	L0002365	VOLUME	487213.390	3729659.007	441.00
LOCATION	L0002366	VOLUME	487223.753	3729659.079	441.00
LOCATION	L0002367	VOLUME	487234.115	3729659.150	441.00
LOCATION	L0002368	VOLUME	487244.478	3729659.222	441.00
LOCATION	L0002369	VOLUME	487254.841	3729659.294	441.00
LOCATION	L0002370	VOLUME	487265.204	3729659.366	441.00
LOCATION	L0002371	VOLUME	487275.567	3729659.437	441.00
LOCATION	L0002372	VOLUME	487285.930	3729659.509	441.00
LOCATION	L0002373	VOLUME	487296.293	3729659.581	441.00
LOCATION	L0002374	VOLUME	487306.656	3729659.653	441.00
LOCATION	L0002375	VOLUME	487317.019	3729659.724	441.00
LOCATION	L0002376	VOLUME	487327.382	3729659.796	441.00
LOCATION	L0002377	VOLUME	487337.745	3729659.868	441.00
LOCATION	L0002378	VOLUME	487348.108	3729659.940	441.00
LOCATION	L0002379	VOLUME	487358.471	3729660.011	441.00
LOCATION	L0002380	VOLUME	487368.834	3729660.083	441.00
LOCATION	L0002381	VOLUME	487379.197	3729660.155	441.00
LOCATION	L0002382	VOLUME	487389.560	3729660.227	441.00
LOCATION	L0002383	VOLUME	487399.923	3729660.298	440.83
LOCATION	L0002384	VOLUME	487410.286	3729660.370	440.65
LOCATION	L0002385	VOLUME	487420.649	3729660.442	440.48
LOCATION	L0002386	VOLUME	487431.012	3729660.514	440.49
LOCATION	L0002387	VOLUME	487441.375	3729660.585	440.49
LOCATION	L0002388	VOLUME	487451.737	3729660.657	440.52
LOCATION	L0002389	VOLUME	487462.100	3729660.729	440.69
LOCATION	L0002390	VOLUME	487472.463	3729660.801	440.87
LOCATION	L0002391	VOLUME	487482.826	3729660.872	441.00
LOCATION	L0002392	VOLUME	487493.189	3729660.944	441.00
LOCATION	L0002393	VOLUME	487503.552	3729661.016	441.00
LOCATION	L0002394	VOLUME	487513.915	3729661.088	441.00
LOCATION	L0002395	VOLUME	487524.278	3729661.159	441.00
LOCATION	L0002396	VOLUME	487534.641	3729661.231	441.00
LOCATION	L0002397	VOLUME	487545.004	3729661.303	441.00
LOCATION	L0002398	VOLUME	487555.367	3729661.375	441.00
LOCATION	L0002399	VOLUME	487565.730	3729661.446	441.00
LOCATION	L0002400	VOLUME	487576.093	3729661.518	441.00
LOCATION	L0002401	VOLUME	487586.456	3729661.590	441.00
LOCATION	L0002402	VOLUME	487596.819	3729661.662	441.00
LOCATION	L0002403	VOLUME	487607.182	3729661.733	441.00
LOCATION	L0002404	VOLUME	487617.545	3729661.805	441.00
LOCATION	L0002405	VOLUME	487627.908	3729661.877	441.00

LOCATION	L0002406	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0002407	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0002408	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0002409	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0002410	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0002411	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0002412	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0002413	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0002414	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0002415	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0002416	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0002417	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0002418	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0002419	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0002420	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0002421	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0002422	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0002423	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0002424	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0002425	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0002426	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0002427	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0002428	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0002429	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0002430	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0002431	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0002432	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0002433	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0002434	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0002435	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0002436	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0002437	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0002438	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0002439	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0002440	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 6.86E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0002441	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0002442	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0002443	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0002444	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0002445	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0002446	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0002447	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0002448	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0002449	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0002450	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0002451	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0002452	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0002453	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0002454	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0002455	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0002456	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0002457	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0002458	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0002459	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0002460	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0002461	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0002462	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0002463	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0002464	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0002465	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0002466	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0002467	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0002468	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0002469	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0002470	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0002471	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0002472	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0002473	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0002474	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0002475	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0002476	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0002477	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0002478	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0002479	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0002480	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0002481	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0002482	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0002483	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0002484	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0002485	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0002486	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0002487	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0002488	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0002489	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0002490	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0002491	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0002492	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0002493	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0002494	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0002495	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0002496	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0002497	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0002498	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0002499	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0002500	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0002501	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0002502	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0002503	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0002504	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0002505	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0002506	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0002507	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0002508	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0002509	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0002510	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0002511	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0002512	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0002513	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0002514	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0002515	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0002516	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0002517	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0002518	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0002519	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0002520	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0002521	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0002522	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 6.5E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0002523	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0002524	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0002525	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0002526	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0002527	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0002528	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0002529	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0002530	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0002531	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0002532	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0002533	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0002534	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0002535	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0002536	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0002537	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0002538	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0002539	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0002540	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0002541	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0002542	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0002543	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0002544	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0002545	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0002546	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0002547	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0002548	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0002549	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0002550	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0002551	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0002552	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0002553	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0002554	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0002555	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0002556	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0002557	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0002558	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0002559	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0002560	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0002561	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0002562	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0002563	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0002564	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0002565	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0002566	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0002567	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0002568	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0002569	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0002570	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0002571	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0002572	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0002573	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0002574	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0002575	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0002576	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0002577	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0002578	VOLUME	487142.209	3729442.303	440.00
LOCATION	L0002579	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0002580	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0002581	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0002582	VOLUME	487142.513	3729427.676	440.00
LOCATION	L0002583	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0002584	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0002585	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0002586	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0002587	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0002588	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0002589	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0002590	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0002591	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0002592	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0002593	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0002594	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0002595	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0002596	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0002597	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0002598	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0002599	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0002600	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0002601	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0002602	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0002603	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0002604	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0002605	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0002606	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0002607	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0002608	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0002609	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0002610	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0002611	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0002612	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0002613	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0002614	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0002615	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0002616	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0002617	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0002618	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0002619	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0002620	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0002621	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0002622	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0002623	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0002624	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0002625	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0002626	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0002627	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0002628	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0002629	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0002630	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0002631	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0002632	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0002633	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0002634	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0002635	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0002636	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0002637	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0002638	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0002639	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0002640	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0002641	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0002642	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0002643	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0002644	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0002645	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0002646	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0002647	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0002648	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0002649	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0002650	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0002651	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0002652	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0002653	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0002654	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0002655	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0002656	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0002657	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0002658	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0002659	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.00084	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0002257	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002258	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002259	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002260	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002261	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002262	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002263	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002264	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002265	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002266	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002267	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002268	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002269	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002270	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002271	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002272	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002273	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002274	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002275	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002276	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002277	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002278	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002279	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002280	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002281	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002282	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002283	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002284	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002285	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002286	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002287	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002288	0.000000008373	0.00	4.82	1.70
SRCPARAM	L0002289	0.000000008373	0.00	4.82	1.70

[illegible]

[illegible]

* *

** LINE VOLUME Source ID = RDSIMPW

SRCPARAM	L0002441	0.0000000008366	0.00	4.82	0.85
SRCPARAM	L0002442	0.0000000008366	0.00	4.82	0.85
SRCPARAM	L0002443	0.0000000008366	0.00	4.82	0.85
SRCPARAM	L0002444	0.0000000008366	0.00	4.82	0.85
SRCPARAM	L0002445	0.0000000008366	0.00	4.82	0.85
SRCPARAM	L0002446	0.0000000008366	0.00	4.82	0.85
SRCPARAM	L0002447	0.0000000008366	0.00	4.82	0.85

[illegible]

[illegible]

[illegible]

* *

SRCPARAM IDLE	2.18E-07	3.658	366.000	50	0.1


```

    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED Mit2028.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST MIT2028.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL MIT2028.AD\PE00GALL.PLT 32
    SUMMFILE Mit2028.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
**

```

* AERMOD (22112): Menifee TTM No 38625 - Year 2028 Construction DPM Mitigated 09/23/23
* AERMET (16216): 11:33:51

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.00275	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00251	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.00363	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.00520	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.00468	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.00773	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.00770	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.00637	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.00945	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.01043	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.00923	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00266	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2

APPENDIX I

AERMOD Model Year 2029 Construction DPM Printouts

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Menifee\AERMOD\UnMit2029\UnMit2029.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Menifee TTM No 38625 - Year 2029 Construction DPM UnMitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL UnMit2029.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840   440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 7.02E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
** -----
  LOCATION L0003063      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0003064      VOLUME    487343.000 3730382.960 444.00

```

LOCATION	L0003065	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0003066	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0003067	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0003068	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0003069	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0003070	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0003071	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0003072	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0003073	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0003074	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0003075	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0003076	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0003077	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0003078	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0003079	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0003080	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0003081	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0003082	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0003083	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0003084	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0003085	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0003086	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0003087	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0003088	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0003089	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0003090	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0003091	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0003092	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0003093	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0003094	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0003095	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0003096	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0003097	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0003098	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0003099	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0003100	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0003101	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0003102	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0003103	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0003104	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0003105	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0003106	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0003107	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0003108	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0003109	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0003110	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0003111	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0003112	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0003113	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0003114	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0003115	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0003116	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0003117	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0003118	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0003119	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0003120	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0003121	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0003122	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0003123	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0003124	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0003125	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0003126	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0003127	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0003128	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0003129	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0003130	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0003131	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0003132	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0003133	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0003134	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0003135	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0003136	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0003137	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0003138	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0003139	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0003140	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0003141	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0003142	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0003143	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0003144	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0003145	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0003146	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0003147	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0003148	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0003149	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0003150	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0003151	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0003152	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0003153	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0003154	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0003155	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0003156	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0003157	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0003158	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0003159	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0003160	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0003161	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0003162	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0003163	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0003164	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

```

** Emission Rate = 5.63E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

```

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** -----
LOCATION L0003165      VOLUME  487151.212 3729658.576 441.00
LOCATION L0003166      VOLUME  487161.575 3729658.648 441.00
LOCATION L0003167      VOLUME  487171.938 3729658.720 441.00
LOCATION L0003168      VOLUME  487182.301 3729658.792 441.00
LOCATION L0003169      VOLUME  487192.664 3729658.863 441.00
LOCATION L0003170      VOLUME  487203.027 3729658.935 441.00
LOCATION L0003171      VOLUME  487213.390 3729659.007 441.00
LOCATION L0003172      VOLUME  487223.753 3729659.079 441.00
LOCATION L0003173      VOLUME  487234.115 3729659.150 441.00
LOCATION L0003174      VOLUME  487244.478 3729659.222 441.00
LOCATION L0003175      VOLUME  487254.841 3729659.294 441.00
LOCATION L0003176      VOLUME  487265.204 3729659.366 441.00
LOCATION L0003177      VOLUME  487275.567 3729659.437 441.00
LOCATION L0003178      VOLUME  487285.930 3729659.509 441.00
LOCATION L0003179      VOLUME  487296.293 3729659.581 441.00
LOCATION L0003180      VOLUME  487306.656 3729659.653 441.00
LOCATION L0003181      VOLUME  487317.019 3729659.724 441.00
LOCATION L0003182      VOLUME  487327.382 3729659.796 441.00
LOCATION L0003183      VOLUME  487337.745 3729659.868 441.00
LOCATION L0003184      VOLUME  487348.108 3729659.940 441.00
LOCATION L0003185      VOLUME  487358.471 3729660.011 441.00
LOCATION L0003186      VOLUME  487368.834 3729660.083 441.00
LOCATION L0003187      VOLUME  487379.197 3729660.155 441.00
LOCATION L0003188      VOLUME  487389.560 3729660.227 441.00
LOCATION L0003189      VOLUME  487399.923 3729660.298 440.83
LOCATION L0003190      VOLUME  487410.286 3729660.370 440.65
LOCATION L0003191      VOLUME  487420.649 3729660.442 440.48
LOCATION L0003192      VOLUME  487431.012 3729660.514 440.49
LOCATION L0003193      VOLUME  487441.375 3729660.585 440.49
LOCATION L0003194      VOLUME  487451.737 3729660.657 440.52
LOCATION L0003195      VOLUME  487462.100 3729660.729 440.69
LOCATION L0003196      VOLUME  487472.463 3729660.801 440.87
LOCATION L0003197      VOLUME  487482.826 3729660.872 441.00
LOCATION L0003198      VOLUME  487493.189 3729660.944 441.00
LOCATION L0003199      VOLUME  487503.552 3729661.016 441.00
LOCATION L0003200      VOLUME  487513.915 3729661.088 441.00
LOCATION L0003201      VOLUME  487524.278 3729661.159 441.00
LOCATION L0003202      VOLUME  487534.641 3729661.231 441.00
LOCATION L0003203      VOLUME  487545.004 3729661.303 441.00
LOCATION L0003204      VOLUME  487555.367 3729661.375 441.00
LOCATION L0003205      VOLUME  487565.730 3729661.446 441.00
LOCATION L0003206      VOLUME  487576.093 3729661.518 441.00
LOCATION L0003207      VOLUME  487586.456 3729661.590 441.00
LOCATION L0003208      VOLUME  487596.819 3729661.662 441.00
LOCATION L0003209      VOLUME  487607.182 3729661.733 441.00
LOCATION L0003210      VOLUME  487617.545 3729661.805 441.00
LOCATION L0003211      VOLUME  487627.908 3729661.877 441.00

```

LOCATION	L0003212	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0003213	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0003214	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0003215	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0003216	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0003217	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0003218	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0003219	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0003220	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0003221	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0003222	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0003223	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0003224	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0003225	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0003226	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0003227	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0003228	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0003229	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0003230	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0003231	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0003232	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0003233	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0003234	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0003235	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0003236	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0003237	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0003238	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0003239	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0003240	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0003241	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0003242	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0003243	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0003244	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0003245	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0003246	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 5.64E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0003247	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0003248	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0003249	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0003250	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0003251	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0003252	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0003253	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0003254	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0003255	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0003256	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0003257	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0003258	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0003259	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0003260	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0003261	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0003262	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0003263	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0003264	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0003265	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0003266	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0003267	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0003268	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0003269	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0003270	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0003271	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0003272	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0003273	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0003274	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0003275	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0003276	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0003277	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0003278	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0003279	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0003280	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0003281	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0003282	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0003283	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0003284	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0003285	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0003286	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0003287	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0003288	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0003289	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0003290	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0003291	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0003292	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0003293	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0003294	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0003295	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0003296	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0003297	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0003298	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0003299	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0003300	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0003301	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0003302	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0003303	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0003304	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0003305	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0003306	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0003307	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0003308	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0003309	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0003310	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0003311	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0003312	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0003313	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0003314	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0003315	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0003316	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0003317	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0003318	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0003319	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0003320	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0003321	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0003322	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0003323	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0003324	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0003325	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0003326	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0003327	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0003328	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 5.11E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

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LOCATION	L0003329	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0003330	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0003331	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0003332	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0003333	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0003334	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0003335	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0003336	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0003337	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0003338	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0003339	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0003340	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0003341	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0003342	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0003343	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0003344	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0003345	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0003346	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0003347	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0003348	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0003349	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0003350	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0003351	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0003352	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0003353	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0003354	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0003355	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0003356	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0003357	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0003358	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0003359	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0003360	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0003361	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0003362	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0003363	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0003364	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0003365	VOLUME	487140.761	3729511.782	440.00
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LOCATION	L0003369	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0003370	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0003371	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0003372	VOLUME	487141.294	3729486.185	440.00
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LOCATION	L0003378	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0003379	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0003380	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0003381	VOLUME	487141.980	3729453.273	440.00
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LOCATION	L0003387	VOLUME	487142.437	3729431.333	440.00
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LOCATION	L0003391	VOLUME	487142.742	3729416.705	440.00
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LOCATION	L0003393	VOLUME	487142.894	3729409.392	440.00
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LOCATION	L0003396	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0003397	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0003398	VOLUME	487143.275	3729391.108	440.00
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LOCATION	L0003400	VOLUME	487143.428	3729383.794	440.00
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LOCATION	L0003402	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0003403	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0003404	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0003405	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0003406	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0003407	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0003408	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0003409	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0003410	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0003411	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0003412	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0003413	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0003414	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0003415	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0003416	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0003417	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0003418	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0003419	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0003420	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0003421	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0003422	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0003423	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0003424	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0003425	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0003426	VOLUME	487193.220	3729337.304	440.00
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LOCATION	L0003431	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0003432	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0003433	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0003434	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0003435	VOLUME	487226.138	3729337.148	440.00
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LOCATION	L0003441	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0003442	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0003443	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0003444	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0003445	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0003446	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0003447	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0003448	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0003449	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0003450	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0003451	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0003452	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0003453	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0003454	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0003455	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0003456	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0003457	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0003458	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0003459	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0003460	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0003461	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0003462	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0003463	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0003464	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0003465	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.0028	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0003063	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003064	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003065	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003066	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003067	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003068	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003069	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003070	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003071	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003072	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003073	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003074	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003075	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003076	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003077	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003078	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003079	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003080	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003081	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003082	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003083	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003084	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003085	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003086	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003087	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003088	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003089	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003090	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003091	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003092	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003093	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003094	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003095	0.000000006882	0.00	4.82	1.70

[illegible]

[illegible]

[illegible]


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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
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** AERMOD Receptor Pathway
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**
**
RE STARTING
    INCLUDED UnMit2029.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
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** AERMOD Output Pathway
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**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST UNMIT2029.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL UNMIT2029.AD\PE00GALL.PLT 32
    SUMMFILE UnMit2029.sum
OU FINISHED
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** Project Parameters
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** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
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* AERMOD (22112): Menifee TTM No 38625 - Year 2029 Construction DPM UnMitigated
* AERMET (16216):

09/23/23
14:52:46

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*

* PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
* FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.00913	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00832	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.01191	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.01712	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.01540	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.02557	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.02542	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.02104	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.03141	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.03472	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.03072	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00886	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2

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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 9/23/2023
** File: C:\Vista Env\2023\23020 Meniffee\AERMOD\Mit2029\Mit2029.ADI
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*****
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** AERMOD Control Pathway
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**
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CO STARTING
  TITLEONE Meniffee TTM No 38625 - Year 2029 Construction DPM Mitigated
  TITLETWO PM2.5
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 2189641 Riverside_Co
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL Mit2029.err
CO FINISHED
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** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION EQUIP          POINT          487155.452   3729352.840   440.000
** DESCRSRC Off-road construction equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = RDBRIGGS
** DESCRSRC Briggs Rd Construction trucks
** PREFIX
** Length of Side = 10.36
** Configuration = Adjacent
** Emission Rate = 7.02E-07
** Vertical Dimension = 3.66
** SZINIT = 1.70
** Nodes = 2
** 487342.914, 3730398.505, 444.00, 0.00, 4.82
** 487348.788, 3729337.839, 440.00, 0.00, 4.82
** -----
  LOCATION L0003063      VOLUME    487342.943 3730393.323 444.00
  LOCATION L0003064      VOLUME    487343.000 3730382.960 444.00

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LOCATION	L0003065	VOLUME	487343.057	3730372.597	444.00
LOCATION	L0003066	VOLUME	487343.115	3730362.234	444.00
LOCATION	L0003067	VOLUME	487343.172	3730351.871	444.00
LOCATION	L0003068	VOLUME	487343.230	3730341.508	444.00
LOCATION	L0003069	VOLUME	487343.287	3730331.145	443.84
LOCATION	L0003070	VOLUME	487343.344	3730320.782	443.50
LOCATION	L0003071	VOLUME	487343.402	3730310.419	443.15
LOCATION	L0003072	VOLUME	487343.459	3730300.056	443.00
LOCATION	L0003073	VOLUME	487343.517	3730289.693	443.00
LOCATION	L0003074	VOLUME	487343.574	3730279.330	443.00
LOCATION	L0003075	VOLUME	487343.631	3730268.967	443.00
LOCATION	L0003076	VOLUME	487343.689	3730258.604	443.00
LOCATION	L0003077	VOLUME	487343.746	3730248.241	443.00
LOCATION	L0003078	VOLUME	487343.804	3730237.878	443.00
LOCATION	L0003079	VOLUME	487343.861	3730227.514	443.00
LOCATION	L0003080	VOLUME	487343.918	3730217.151	443.00
LOCATION	L0003081	VOLUME	487343.976	3730206.788	443.00
LOCATION	L0003082	VOLUME	487344.033	3730196.425	443.00
LOCATION	L0003083	VOLUME	487344.091	3730186.062	443.00
LOCATION	L0003084	VOLUME	487344.148	3730175.699	442.66
LOCATION	L0003085	VOLUME	487344.205	3730165.336	442.31
LOCATION	L0003086	VOLUME	487344.263	3730154.973	442.00
LOCATION	L0003087	VOLUME	487344.320	3730144.610	442.00
LOCATION	L0003088	VOLUME	487344.378	3730134.247	442.00
LOCATION	L0003089	VOLUME	487344.435	3730123.884	442.00
LOCATION	L0003090	VOLUME	487344.492	3730113.521	442.00
LOCATION	L0003091	VOLUME	487344.550	3730103.158	442.00
LOCATION	L0003092	VOLUME	487344.607	3730092.795	442.00
LOCATION	L0003093	VOLUME	487344.664	3730082.432	442.00
LOCATION	L0003094	VOLUME	487344.722	3730072.069	442.00
LOCATION	L0003095	VOLUME	487344.779	3730061.706	442.00
LOCATION	L0003096	VOLUME	487344.837	3730051.343	442.00
LOCATION	L0003097	VOLUME	487344.894	3730040.980	442.00
LOCATION	L0003098	VOLUME	487344.951	3730030.617	442.00
LOCATION	L0003099	VOLUME	487345.009	3730020.254	442.00
LOCATION	L0003100	VOLUME	487345.066	3730009.891	442.00
LOCATION	L0003101	VOLUME	487345.124	3729999.528	442.00
LOCATION	L0003102	VOLUME	487345.181	3729989.165	442.00
LOCATION	L0003103	VOLUME	487345.238	3729978.801	442.00
LOCATION	L0003104	VOLUME	487345.296	3729968.438	441.75
LOCATION	L0003105	VOLUME	487345.353	3729958.075	441.41
LOCATION	L0003106	VOLUME	487345.411	3729947.712	441.06
LOCATION	L0003107	VOLUME	487345.468	3729937.349	441.00
LOCATION	L0003108	VOLUME	487345.525	3729926.986	441.00
LOCATION	L0003109	VOLUME	487345.583	3729916.623	441.00
LOCATION	L0003110	VOLUME	487345.640	3729906.260	441.00
LOCATION	L0003111	VOLUME	487345.698	3729895.897	441.00
LOCATION	L0003112	VOLUME	487345.755	3729885.534	441.00
LOCATION	L0003113	VOLUME	487345.812	3729875.171	441.00
LOCATION	L0003114	VOLUME	487345.870	3729864.808	441.00
LOCATION	L0003115	VOLUME	487345.927	3729854.445	441.00
LOCATION	L0003116	VOLUME	487345.985	3729844.082	441.00
LOCATION	L0003117	VOLUME	487346.042	3729833.719	441.00
LOCATION	L0003118	VOLUME	487346.099	3729823.356	441.00

LOCATION	L0003119	VOLUME	487346.157	3729812.993	441.00
LOCATION	L0003120	VOLUME	487346.214	3729802.630	441.00
LOCATION	L0003121	VOLUME	487346.272	3729792.267	441.00
LOCATION	L0003122	VOLUME	487346.329	3729781.904	441.00
LOCATION	L0003123	VOLUME	487346.386	3729771.541	441.00
LOCATION	L0003124	VOLUME	487346.444	3729761.178	441.00
LOCATION	L0003125	VOLUME	487346.501	3729750.815	441.00
LOCATION	L0003126	VOLUME	487346.559	3729740.452	441.00
LOCATION	L0003127	VOLUME	487346.616	3729730.088	441.00
LOCATION	L0003128	VOLUME	487346.673	3729719.725	441.00
LOCATION	L0003129	VOLUME	487346.731	3729709.362	441.00
LOCATION	L0003130	VOLUME	487346.788	3729698.999	441.00
LOCATION	L0003131	VOLUME	487346.846	3729688.636	441.00
LOCATION	L0003132	VOLUME	487346.903	3729678.273	441.00
LOCATION	L0003133	VOLUME	487346.960	3729667.910	441.00
LOCATION	L0003134	VOLUME	487347.018	3729657.547	441.00
LOCATION	L0003135	VOLUME	487347.075	3729647.184	441.00
LOCATION	L0003136	VOLUME	487347.133	3729636.821	440.70
LOCATION	L0003137	VOLUME	487347.190	3729626.458	440.35
LOCATION	L0003138	VOLUME	487347.247	3729616.095	440.01
LOCATION	L0003139	VOLUME	487347.305	3729605.732	440.00
LOCATION	L0003140	VOLUME	487347.362	3729595.369	440.00
LOCATION	L0003141	VOLUME	487347.420	3729585.006	440.00
LOCATION	L0003142	VOLUME	487347.477	3729574.643	440.00
LOCATION	L0003143	VOLUME	487347.534	3729564.280	440.00
LOCATION	L0003144	VOLUME	487347.592	3729553.917	440.00
LOCATION	L0003145	VOLUME	487347.649	3729543.554	440.00
LOCATION	L0003146	VOLUME	487347.706	3729533.191	440.00
LOCATION	L0003147	VOLUME	487347.764	3729522.828	440.00
LOCATION	L0003148	VOLUME	487347.821	3729512.465	440.00
LOCATION	L0003149	VOLUME	487347.879	3729502.102	440.00
LOCATION	L0003150	VOLUME	487347.936	3729491.739	440.00
LOCATION	L0003151	VOLUME	487347.993	3729481.376	440.00
LOCATION	L0003152	VOLUME	487348.051	3729471.012	440.00
LOCATION	L0003153	VOLUME	487348.108	3729460.649	440.00
LOCATION	L0003154	VOLUME	487348.166	3729450.286	440.00
LOCATION	L0003155	VOLUME	487348.223	3729439.923	440.00
LOCATION	L0003156	VOLUME	487348.280	3729429.560	440.00
LOCATION	L0003157	VOLUME	487348.338	3729419.197	440.00
LOCATION	L0003158	VOLUME	487348.395	3729408.834	440.00
LOCATION	L0003159	VOLUME	487348.453	3729398.471	440.00
LOCATION	L0003160	VOLUME	487348.510	3729388.108	440.00
LOCATION	L0003161	VOLUME	487348.567	3729377.745	440.00
LOCATION	L0003162	VOLUME	487348.625	3729367.382	440.00
LOCATION	L0003163	VOLUME	487348.682	3729357.019	440.00
LOCATION	L0003164	VOLUME	487348.740	3729346.656	440.00

** End of LINE VOLUME Source ID = RDBRIGGS

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPE

** DESCRSRC Construction Trucks on Simpson Rd East

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

```

** Emission Rate = 5.63E-07
** Vertical Dimension = 1.83
** SZINIT = 0.85
** Nodes = 2
** 487146.030, 3729658.541, 441.00, 0.00, 4.82
** 487995.987, 3729664.425, 441.00, 0.00, 4.82

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LOCATION	L0003165	VOLUME	487151.212	3729658.576	441.00
LOCATION	L0003166	VOLUME	487161.575	3729658.648	441.00
LOCATION	L0003167	VOLUME	487171.938	3729658.720	441.00
LOCATION	L0003168	VOLUME	487182.301	3729658.792	441.00
LOCATION	L0003169	VOLUME	487192.664	3729658.863	441.00
LOCATION	L0003170	VOLUME	487203.027	3729658.935	441.00
LOCATION	L0003171	VOLUME	487213.390	3729659.007	441.00
LOCATION	L0003172	VOLUME	487223.753	3729659.079	441.00
LOCATION	L0003173	VOLUME	487234.115	3729659.150	441.00
LOCATION	L0003174	VOLUME	487244.478	3729659.222	441.00
LOCATION	L0003175	VOLUME	487254.841	3729659.294	441.00
LOCATION	L0003176	VOLUME	487265.204	3729659.366	441.00
LOCATION	L0003177	VOLUME	487275.567	3729659.437	441.00
LOCATION	L0003178	VOLUME	487285.930	3729659.509	441.00
LOCATION	L0003179	VOLUME	487296.293	3729659.581	441.00
LOCATION	L0003180	VOLUME	487306.656	3729659.653	441.00
LOCATION	L0003181	VOLUME	487317.019	3729659.724	441.00
LOCATION	L0003182	VOLUME	487327.382	3729659.796	441.00
LOCATION	L0003183	VOLUME	487337.745	3729659.868	441.00
LOCATION	L0003184	VOLUME	487348.108	3729659.940	441.00
LOCATION	L0003185	VOLUME	487358.471	3729660.011	441.00
LOCATION	L0003186	VOLUME	487368.834	3729660.083	441.00
LOCATION	L0003187	VOLUME	487379.197	3729660.155	441.00
LOCATION	L0003188	VOLUME	487389.560	3729660.227	441.00
LOCATION	L0003189	VOLUME	487399.923	3729660.298	440.83
LOCATION	L0003190	VOLUME	487410.286	3729660.370	440.65
LOCATION	L0003191	VOLUME	487420.649	3729660.442	440.48
LOCATION	L0003192	VOLUME	487431.012	3729660.514	440.49
LOCATION	L0003193	VOLUME	487441.375	3729660.585	440.49
LOCATION	L0003194	VOLUME	487451.737	3729660.657	440.52
LOCATION	L0003195	VOLUME	487462.100	3729660.729	440.69
LOCATION	L0003196	VOLUME	487472.463	3729660.801	440.87
LOCATION	L0003197	VOLUME	487482.826	3729660.872	441.00
LOCATION	L0003198	VOLUME	487493.189	3729660.944	441.00
LOCATION	L0003199	VOLUME	487503.552	3729661.016	441.00
LOCATION	L0003200	VOLUME	487513.915	3729661.088	441.00
LOCATION	L0003201	VOLUME	487524.278	3729661.159	441.00
LOCATION	L0003202	VOLUME	487534.641	3729661.231	441.00
LOCATION	L0003203	VOLUME	487545.004	3729661.303	441.00
LOCATION	L0003204	VOLUME	487555.367	3729661.375	441.00
LOCATION	L0003205	VOLUME	487565.730	3729661.446	441.00
LOCATION	L0003206	VOLUME	487576.093	3729661.518	441.00
LOCATION	L0003207	VOLUME	487586.456	3729661.590	441.00
LOCATION	L0003208	VOLUME	487596.819	3729661.662	441.00
LOCATION	L0003209	VOLUME	487607.182	3729661.733	441.00
LOCATION	L0003210	VOLUME	487617.545	3729661.805	441.00
LOCATION	L0003211	VOLUME	487627.908	3729661.877	441.00

LOCATION	L0003212	VOLUME	487638.271	3729661.949	441.00
LOCATION	L0003213	VOLUME	487648.634	3729662.020	441.00
LOCATION	L0003214	VOLUME	487658.996	3729662.092	441.00
LOCATION	L0003215	VOLUME	487669.359	3729662.164	441.00
LOCATION	L0003216	VOLUME	487679.722	3729662.236	441.00
LOCATION	L0003217	VOLUME	487690.085	3729662.307	441.00
LOCATION	L0003218	VOLUME	487700.448	3729662.379	440.85
LOCATION	L0003219	VOLUME	487710.811	3729662.451	440.69
LOCATION	L0003220	VOLUME	487721.174	3729662.523	440.55
LOCATION	L0003221	VOLUME	487731.537	3729662.594	440.56
LOCATION	L0003222	VOLUME	487741.900	3729662.666	440.56
LOCATION	L0003223	VOLUME	487752.263	3729662.738	440.52
LOCATION	L0003224	VOLUME	487762.626	3729662.810	440.33
LOCATION	L0003225	VOLUME	487772.989	3729662.881	440.14
LOCATION	L0003226	VOLUME	487783.352	3729662.953	440.06
LOCATION	L0003227	VOLUME	487793.715	3729663.025	440.26
LOCATION	L0003228	VOLUME	487804.078	3729663.097	440.46
LOCATION	L0003229	VOLUME	487814.441	3729663.168	440.58
LOCATION	L0003230	VOLUME	487824.804	3729663.240	440.58
LOCATION	L0003231	VOLUME	487835.167	3729663.312	440.58
LOCATION	L0003232	VOLUME	487845.530	3729663.383	440.48
LOCATION	L0003233	VOLUME	487855.893	3729663.455	440.28
LOCATION	L0003234	VOLUME	487866.256	3729663.527	440.08
LOCATION	L0003235	VOLUME	487876.618	3729663.599	440.00
LOCATION	L0003236	VOLUME	487886.981	3729663.670	440.00
LOCATION	L0003237	VOLUME	487897.344	3729663.742	440.00
LOCATION	L0003238	VOLUME	487907.707	3729663.814	440.10
LOCATION	L0003239	VOLUME	487918.070	3729663.886	440.24
LOCATION	L0003240	VOLUME	487928.433	3729663.957	440.37
LOCATION	L0003241	VOLUME	487938.796	3729664.029	440.57
LOCATION	L0003242	VOLUME	487949.159	3729664.101	440.78
LOCATION	L0003243	VOLUME	487959.522	3729664.173	440.99
LOCATION	L0003244	VOLUME	487969.885	3729664.244	441.00
LOCATION	L0003245	VOLUME	487980.248	3729664.316	441.00
LOCATION	L0003246	VOLUME	487990.611	3729664.388	441.00

** End of LINE VOLUME Source ID = RDSIMPE

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDSIMPW

** DESCRSRC Construction Trucks on Simpson Road West

** PREFIX

** Length of Side = 10.36

** Configuration = Adjacent

** Emission Rate = 5.64E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 2

** 487135.152, 3729658.198, 441.00, 0.00, 4.82

** 486283.517, 3729662.614, 444.07, 0.00, 4.82

** -----

LOCATION	L0003247	VOLUME	487129.970	3729658.224	441.00
LOCATION	L0003248	VOLUME	487119.607	3729658.278	441.00
LOCATION	L0003249	VOLUME	487109.244	3729658.332	441.00
LOCATION	L0003250	VOLUME	487098.881	3729658.386	441.00

LOCATION	L0003251	VOLUME	487088.518	3729658.439	441.00
LOCATION	L0003252	VOLUME	487078.155	3729658.493	441.00
LOCATION	L0003253	VOLUME	487067.792	3729658.547	441.00
LOCATION	L0003254	VOLUME	487057.429	3729658.601	441.00
LOCATION	L0003255	VOLUME	487047.066	3729658.654	441.00
LOCATION	L0003256	VOLUME	487036.703	3729658.708	441.00
LOCATION	L0003257	VOLUME	487026.340	3729658.762	441.00
LOCATION	L0003258	VOLUME	487015.976	3729658.815	441.00
LOCATION	L0003259	VOLUME	487005.613	3729658.869	441.00
LOCATION	L0003260	VOLUME	486995.250	3729658.923	441.00
LOCATION	L0003261	VOLUME	486984.887	3729658.977	441.00
LOCATION	L0003262	VOLUME	486974.524	3729659.030	441.00
LOCATION	L0003263	VOLUME	486964.161	3729659.084	441.00
LOCATION	L0003264	VOLUME	486953.798	3729659.138	441.00
LOCATION	L0003265	VOLUME	486943.435	3729659.192	441.00
LOCATION	L0003266	VOLUME	486933.072	3729659.245	441.00
LOCATION	L0003267	VOLUME	486922.709	3729659.299	441.00
LOCATION	L0003268	VOLUME	486912.346	3729659.353	441.00
LOCATION	L0003269	VOLUME	486901.983	3729659.407	441.00
LOCATION	L0003270	VOLUME	486891.620	3729659.460	441.00
LOCATION	L0003271	VOLUME	486881.257	3729659.514	441.00
LOCATION	L0003272	VOLUME	486870.894	3729659.568	441.00
LOCATION	L0003273	VOLUME	486860.531	3729659.622	441.00
LOCATION	L0003274	VOLUME	486850.167	3729659.675	441.00
LOCATION	L0003275	VOLUME	486839.804	3729659.729	441.00
LOCATION	L0003276	VOLUME	486829.441	3729659.783	441.00
LOCATION	L0003277	VOLUME	486819.078	3729659.836	441.00
LOCATION	L0003278	VOLUME	486808.715	3729659.890	441.00
LOCATION	L0003279	VOLUME	486798.352	3729659.944	441.00
LOCATION	L0003280	VOLUME	486787.989	3729659.998	441.00
LOCATION	L0003281	VOLUME	486777.626	3729660.051	441.00
LOCATION	L0003282	VOLUME	486767.263	3729660.105	441.00
LOCATION	L0003283	VOLUME	486756.900	3729660.159	441.00
LOCATION	L0003284	VOLUME	486746.537	3729660.213	441.00
LOCATION	L0003285	VOLUME	486736.174	3729660.266	441.00
LOCATION	L0003286	VOLUME	486725.811	3729660.320	441.00
LOCATION	L0003287	VOLUME	486715.448	3729660.374	441.00
LOCATION	L0003288	VOLUME	486705.085	3729660.428	441.00
LOCATION	L0003289	VOLUME	486694.722	3729660.481	441.00
LOCATION	L0003290	VOLUME	486684.359	3729660.535	441.00
LOCATION	L0003291	VOLUME	486673.995	3729660.589	441.00
LOCATION	L0003292	VOLUME	486663.632	3729660.642	441.00
LOCATION	L0003293	VOLUME	486653.269	3729660.696	441.00
LOCATION	L0003294	VOLUME	486642.906	3729660.750	441.00
LOCATION	L0003295	VOLUME	486632.543	3729660.804	441.00
LOCATION	L0003296	VOLUME	486622.180	3729660.857	441.00
LOCATION	L0003297	VOLUME	486611.817	3729660.911	441.00
LOCATION	L0003298	VOLUME	486601.454	3729660.965	441.00
LOCATION	L0003299	VOLUME	486591.091	3729661.019	441.00
LOCATION	L0003300	VOLUME	486580.728	3729661.072	441.00
LOCATION	L0003301	VOLUME	486570.365	3729661.126	441.00
LOCATION	L0003302	VOLUME	486560.002	3729661.180	441.00
LOCATION	L0003303	VOLUME	486549.639	3729661.234	441.00
LOCATION	L0003304	VOLUME	486539.276	3729661.287	441.00

LOCATION	L0003305	VOLUME	486528.913	3729661.341	441.00
LOCATION	L0003306	VOLUME	486518.550	3729661.395	441.00
LOCATION	L0003307	VOLUME	486508.186	3729661.449	441.00
LOCATION	L0003308	VOLUME	486497.823	3729661.502	441.00
LOCATION	L0003309	VOLUME	486487.460	3729661.556	441.00
LOCATION	L0003310	VOLUME	486477.097	3729661.610	441.00
LOCATION	L0003311	VOLUME	486466.734	3729661.663	441.00
LOCATION	L0003312	VOLUME	486456.371	3729661.717	441.00
LOCATION	L0003313	VOLUME	486446.008	3729661.771	441.00
LOCATION	L0003314	VOLUME	486435.645	3729661.825	441.00
LOCATION	L0003315	VOLUME	486425.282	3729661.878	441.16
LOCATION	L0003316	VOLUME	486414.919	3729661.932	441.51
LOCATION	L0003317	VOLUME	486404.556	3729661.986	441.85
LOCATION	L0003318	VOLUME	486394.193	3729662.040	442.00
LOCATION	L0003319	VOLUME	486383.830	3729662.093	442.00
LOCATION	L0003320	VOLUME	486373.467	3729662.147	442.00
LOCATION	L0003321	VOLUME	486363.104	3729662.201	442.24
LOCATION	L0003322	VOLUME	486352.741	3729662.255	442.58
LOCATION	L0003323	VOLUME	486342.378	3729662.308	442.93
LOCATION	L0003324	VOLUME	486332.014	3729662.362	443.27
LOCATION	L0003325	VOLUME	486321.651	3729662.416	443.62
LOCATION	L0003326	VOLUME	486311.288	3729662.470	443.96
LOCATION	L0003327	VOLUME	486300.925	3729662.523	444.00
LOCATION	L0003328	VOLUME	486290.562	3729662.577	444.00

** End of LINE VOLUME Source ID = RDSIMPW

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = RDON

** DESCRSRC Construction Trucks onsite

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 5.11E-07

** Vertical Dimension = 1.83

** SZINIT = 0.85

** Nodes = 3

** 487137.980, 3729645.256, 441.00, 0.00, 1.70

** 487144.391, 3729337.536, 440.00, 0.00, 1.70

** 487337.632, 3729336.620, 440.00, 0.00, 1.70

** -----

LOCATION	L0003329	VOLUME	487138.019	3729643.427	441.00
LOCATION	L0003330	VOLUME	487138.095	3729639.771	441.00
LOCATION	L0003331	VOLUME	487138.171	3729636.114	441.00
LOCATION	L0003332	VOLUME	487138.247	3729632.457	441.00
LOCATION	L0003333	VOLUME	487138.323	3729628.800	441.00
LOCATION	L0003334	VOLUME	487138.399	3729625.143	441.00
LOCATION	L0003335	VOLUME	487138.476	3729621.487	441.00
LOCATION	L0003336	VOLUME	487138.552	3729617.830	441.00
LOCATION	L0003337	VOLUME	487138.628	3729614.173	440.94
LOCATION	L0003338	VOLUME	487138.704	3729610.516	440.82
LOCATION	L0003339	VOLUME	487138.780	3729606.859	440.70
LOCATION	L0003340	VOLUME	487138.857	3729603.202	440.58
LOCATION	L0003341	VOLUME	487138.933	3729599.546	440.45
LOCATION	L0003342	VOLUME	487139.009	3729595.889	440.33

LOCATION	L0003343	VOLUME	487139.085	3729592.232	440.21
LOCATION	L0003344	VOLUME	487139.161	3729588.575	440.09
LOCATION	L0003345	VOLUME	487139.237	3729584.918	440.00
LOCATION	L0003346	VOLUME	487139.314	3729581.262	440.00
LOCATION	L0003347	VOLUME	487139.390	3729577.605	440.00
LOCATION	L0003348	VOLUME	487139.466	3729573.948	440.00
LOCATION	L0003349	VOLUME	487139.542	3729570.291	440.00
LOCATION	L0003350	VOLUME	487139.618	3729566.634	440.00
LOCATION	L0003351	VOLUME	487139.695	3729562.978	440.00
LOCATION	L0003352	VOLUME	487139.771	3729559.321	440.00
LOCATION	L0003353	VOLUME	487139.847	3729555.664	440.00
LOCATION	L0003354	VOLUME	487139.923	3729552.007	440.00
LOCATION	L0003355	VOLUME	487139.999	3729548.350	440.00
LOCATION	L0003356	VOLUME	487140.075	3729544.694	440.00
LOCATION	L0003357	VOLUME	487140.152	3729541.037	440.00
LOCATION	L0003358	VOLUME	487140.228	3729537.380	440.00
LOCATION	L0003359	VOLUME	487140.304	3729533.723	440.00
LOCATION	L0003360	VOLUME	487140.380	3729530.066	440.00
LOCATION	L0003361	VOLUME	487140.456	3729526.410	440.00
LOCATION	L0003362	VOLUME	487140.533	3729522.753	440.00
LOCATION	L0003363	VOLUME	487140.609	3729519.096	440.00
LOCATION	L0003364	VOLUME	487140.685	3729515.439	440.00
LOCATION	L0003365	VOLUME	487140.761	3729511.782	440.00
LOCATION	L0003366	VOLUME	487140.837	3729508.126	440.00
LOCATION	L0003367	VOLUME	487140.914	3729504.469	440.00
LOCATION	L0003368	VOLUME	487140.990	3729500.812	440.00
LOCATION	L0003369	VOLUME	487141.066	3729497.155	440.00
LOCATION	L0003370	VOLUME	487141.142	3729493.498	440.00
LOCATION	L0003371	VOLUME	487141.218	3729489.841	440.00
LOCATION	L0003372	VOLUME	487141.294	3729486.185	440.00
LOCATION	L0003373	VOLUME	487141.371	3729482.528	440.00
LOCATION	L0003374	VOLUME	487141.447	3729478.871	440.00
LOCATION	L0003375	VOLUME	487141.523	3729475.214	440.00
LOCATION	L0003376	VOLUME	487141.599	3729471.557	440.00
LOCATION	L0003377	VOLUME	487141.675	3729467.901	440.00
LOCATION	L0003378	VOLUME	487141.752	3729464.244	440.00
LOCATION	L0003379	VOLUME	487141.828	3729460.587	440.00
LOCATION	L0003380	VOLUME	487141.904	3729456.930	440.00
LOCATION	L0003381	VOLUME	487141.980	3729453.273	440.00
LOCATION	L0003382	VOLUME	487142.056	3729449.617	440.00
LOCATION	L0003383	VOLUME	487142.132	3729445.960	440.00
LOCATION	L0003384	VOLUME	487142.209	3729442.303	440.00
LOCATION	L0003385	VOLUME	487142.285	3729438.646	440.00
LOCATION	L0003386	VOLUME	487142.361	3729434.989	440.00
LOCATION	L0003387	VOLUME	487142.437	3729431.333	440.00
LOCATION	L0003388	VOLUME	487142.513	3729427.676	440.00
LOCATION	L0003389	VOLUME	487142.590	3729424.019	440.00
LOCATION	L0003390	VOLUME	487142.666	3729420.362	440.00
LOCATION	L0003391	VOLUME	487142.742	3729416.705	440.00
LOCATION	L0003392	VOLUME	487142.818	3729413.049	440.00
LOCATION	L0003393	VOLUME	487142.894	3729409.392	440.00
LOCATION	L0003394	VOLUME	487142.970	3729405.735	440.00
LOCATION	L0003395	VOLUME	487143.047	3729402.078	440.00
LOCATION	L0003396	VOLUME	487143.123	3729398.421	440.00

LOCATION	L0003397	VOLUME	487143.199	3729394.765	440.00
LOCATION	L0003398	VOLUME	487143.275	3729391.108	440.00
LOCATION	L0003399	VOLUME	487143.351	3729387.451	440.00
LOCATION	L0003400	VOLUME	487143.428	3729383.794	440.00
LOCATION	L0003401	VOLUME	487143.504	3729380.137	440.00
LOCATION	L0003402	VOLUME	487143.580	3729376.480	440.00
LOCATION	L0003403	VOLUME	487143.656	3729372.824	440.00
LOCATION	L0003404	VOLUME	487143.732	3729369.167	440.00
LOCATION	L0003405	VOLUME	487143.808	3729365.510	440.00
LOCATION	L0003406	VOLUME	487143.885	3729361.853	440.00
LOCATION	L0003407	VOLUME	487143.961	3729358.196	440.00
LOCATION	L0003408	VOLUME	487144.037	3729354.540	440.00
LOCATION	L0003409	VOLUME	487144.113	3729350.883	440.00
LOCATION	L0003410	VOLUME	487144.189	3729347.226	440.00
LOCATION	L0003411	VOLUME	487144.266	3729343.569	440.00
LOCATION	L0003412	VOLUME	487144.342	3729339.912	440.00
LOCATION	L0003413	VOLUME	487145.672	3729337.530	440.00
LOCATION	L0003414	VOLUME	487149.329	3729337.512	440.00
LOCATION	L0003415	VOLUME	487152.987	3729337.495	440.00
LOCATION	L0003416	VOLUME	487156.644	3729337.478	440.00
LOCATION	L0003417	VOLUME	487160.302	3729337.460	440.00
LOCATION	L0003418	VOLUME	487163.960	3729337.443	440.00
LOCATION	L0003419	VOLUME	487167.617	3729337.426	440.00
LOCATION	L0003420	VOLUME	487171.275	3729337.408	440.00
LOCATION	L0003421	VOLUME	487174.932	3729337.391	440.00
LOCATION	L0003422	VOLUME	487178.590	3729337.374	440.00
LOCATION	L0003423	VOLUME	487182.247	3729337.356	440.00
LOCATION	L0003424	VOLUME	487185.905	3729337.339	440.00
LOCATION	L0003425	VOLUME	487189.562	3729337.322	440.00
LOCATION	L0003426	VOLUME	487193.220	3729337.304	440.00
LOCATION	L0003427	VOLUME	487196.878	3729337.287	440.00
LOCATION	L0003428	VOLUME	487200.535	3729337.270	440.00
LOCATION	L0003429	VOLUME	487204.193	3729337.252	440.00
LOCATION	L0003430	VOLUME	487207.850	3729337.235	440.00
LOCATION	L0003431	VOLUME	487211.508	3729337.218	440.00
LOCATION	L0003432	VOLUME	487215.165	3729337.200	440.00
LOCATION	L0003433	VOLUME	487218.823	3729337.183	440.00
LOCATION	L0003434	VOLUME	487222.481	3729337.166	440.00
LOCATION	L0003435	VOLUME	487226.138	3729337.148	440.00
LOCATION	L0003436	VOLUME	487229.796	3729337.131	440.00
LOCATION	L0003437	VOLUME	487233.453	3729337.114	440.00
LOCATION	L0003438	VOLUME	487237.111	3729337.096	440.00
LOCATION	L0003439	VOLUME	487240.768	3729337.079	440.00
LOCATION	L0003440	VOLUME	487244.426	3729337.062	440.00
LOCATION	L0003441	VOLUME	487248.083	3729337.044	440.00
LOCATION	L0003442	VOLUME	487251.741	3729337.027	440.00
LOCATION	L0003443	VOLUME	487255.399	3729337.010	440.00
LOCATION	L0003444	VOLUME	487259.056	3729336.992	440.00
LOCATION	L0003445	VOLUME	487262.714	3729336.975	440.00
LOCATION	L0003446	VOLUME	487266.371	3729336.958	440.00
LOCATION	L0003447	VOLUME	487270.029	3729336.940	440.00
LOCATION	L0003448	VOLUME	487273.686	3729336.923	440.00
LOCATION	L0003449	VOLUME	487277.344	3729336.906	440.00
LOCATION	L0003450	VOLUME	487281.001	3729336.888	440.00

LOCATION	L0003451	VOLUME	487284.659	3729336.871	440.00
LOCATION	L0003452	VOLUME	487288.317	3729336.854	440.00
LOCATION	L0003453	VOLUME	487291.974	3729336.836	440.00
LOCATION	L0003454	VOLUME	487295.632	3729336.819	440.00
LOCATION	L0003455	VOLUME	487299.289	3729336.802	440.00
LOCATION	L0003456	VOLUME	487302.947	3729336.784	440.00
LOCATION	L0003457	VOLUME	487306.604	3729336.767	440.00
LOCATION	L0003458	VOLUME	487310.262	3729336.750	440.00
LOCATION	L0003459	VOLUME	487313.919	3729336.732	440.00
LOCATION	L0003460	VOLUME	487317.577	3729336.715	440.00
LOCATION	L0003461	VOLUME	487321.235	3729336.698	440.00
LOCATION	L0003462	VOLUME	487324.892	3729336.680	440.00
LOCATION	L0003463	VOLUME	487328.550	3729336.663	440.00
LOCATION	L0003464	VOLUME	487332.207	3729336.646	440.00
LOCATION	L0003465	VOLUME	487335.865	3729336.628	440.00
** End of LINE VOLUME Source ID = RDON					
LOCATION	IDLE	POINT	487133.920	3729331.040	440.000
** DESCRSRC Construction Trucks Idling					
** Source Parameters **					
SRCPARAM	EQUIP	0.00098	3.962	366.000	50 0.1
** LINE VOLUME Source ID = RDBRIGGS					
SRCPARAM	L0003063	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003064	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003065	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003066	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003067	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003068	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003069	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003070	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003071	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003072	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003073	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003074	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003075	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003076	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003077	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003078	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003079	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003080	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003081	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003082	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003083	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003084	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003085	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003086	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003087	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003088	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003089	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003090	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003091	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003092	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003093	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003094	0.000000006882	0.00	4.82	1.70
SRCPARAM	L0003095	0.000000006882	0.00	4.82	1.70

[illegible]

[illegible]

* *

** LINE VOLUME Source ID = RDSIMPW

SRCPARAM	L0003247	0.000000006878	0.00	4.82	0.85
SRCPARAM	L0003248	0.000000006878	0.00	4.82	0.85
SRCPARAM	L0003249	0.000000006878	0.00	4.82	0.85
SRCPARAM	L0003250	0.000000006878	0.00	4.82	0.85
SRCPARAM	L0003251	0.000000006878	0.00	4.82	0.85
SRCPARAM	L0003252	0.000000006878	0.00	4.82	0.85
SRCPARAM	L0003253	0.000000006878	0.00	4.82	0.85

[illegible]

[illegible]

[illegible]

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**-----
SRCPARAM IDLE          1.71E-07      3.658      366.000          50          0.1

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    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
    INCLUDED Mit2029.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
    SURFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
    PROFFILE ..\PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
    SURFDATA 3171 2010 Perris
    UAIRDATA 3190 2010
    SITEDATA 99999 2010
    PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST MIT2029.AD\01H1GALL.PLT 31
    PLOTFILE PERIOD ALL MIT2029.AD\PE00GALL.PLT 32
    SUMMFILE Mit2029.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN CoordinateSystemUTM
** DESCPTN UTM: Universal Transverse Mercator
** DATUM World Geodetic System 1984
** DTMRGN Global Definition
** UNITS m
** ZONE 11
** ZONEINX 0
**

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* AERMOD (22112): Menifee TTM No 38625 - Year 2029 Construction DPM Mitigated 09/23/23
 * AERMET (16216): 11:26:46

* MODELING OPTIONS USED: RegDEFAULT CONC ELEV URBAN ADJ_U*
 * PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
 * FOR A TOTAL OF 12 RECEPTORS.

* FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
486813.00000	3729922.00000	0.00320	442.00	783.00	0.00	PERIOD	ALL	00043824	
487009.00000	3730092.00000	0.00292	443.00	783.00	0.00	PERIOD	ALL	00043824	
487311.00000	3729863.00000	0.00421	441.00	783.00	0.00	PERIOD	ALL	00043824	
487307.00000	3729738.00000	0.00604	441.00	783.00	0.00	PERIOD	ALL	00043824	
486860.00000	3729683.00000	0.00543	441.00	783.00	0.00	PERIOD	ALL	00043824	
487048.00000	3729688.00000	0.00899	441.00	783.00	0.00	PERIOD	ALL	00043824	
487199.00000	3729688.00000	0.00895	441.00	783.00	0.00	PERIOD	ALL	00043824	
486918.00000	3729626.00000	0.00740	441.00	783.00	0.00	PERIOD	ALL	00043824	
486941.00000	3729485.00000	0.01101	440.00	783.00	0.00	PERIOD	ALL	00043824	
486937.00000	3729361.00000	0.01216	439.50	783.00	0.00	PERIOD	ALL	00043824	
486938.00000	3729245.00000	0.01076	439.00	783.00	0.00	PERIOD	ALL	00043824	
486915.00000	3728830.00000	0.00310	442.91	783.00	0.00	PERIOD	ALL	00043824	

** CONCUNIT ug/m^3

** DEPUNIT g/m^2