



Appendix A

Redlands Avenue East Industrial Project Air Quality, Global Climate
Change, Health Risk Assessment and Energy Impact Analysis

Ganddini Group

February 25, 2022

**REDLANDS AVENUE EAST
INDUSTRIAL PROJECT
AIR QUALITY, GLOBAL CLIMATE CHANGE,
HRA, AND ENERGY IMPACT ANALYSIS**

City of Perris

February 25, 2022



Traffic Engineering • Transportation Planning • Parking • Noise & Vibration
Air Quality • Global Climate Change • Health Risk Assessment

REDLANDS AVENUE EAST INDUSTRIAL PROJECT AIR QUALITY, GLOBAL CLIMATE CHANGE, HRA, AND ENERGY IMPACT ANALYSIS

City of Perris

February 25, 2022

prepared by
Katie Wilson, MS
Catherine Howe, MS



GANDDINI GROUP INC.
555 Park Center Drive, Suite 225
Santa Ana, California 92705
(714) 795-3100 | ganddini.com

Project No. 19371

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EXECUTIVE SUMMARY

The purpose of this air quality, global climate change, health risk assessment and energy impact analysis is to provide an assessment of the impacts resulting from development of the proposed Redlands Avenue East Industrial project and to identify measures that may be necessary to reduce potentially significant impacts.

Construction-Source Emissions

Project construction-source emissions would not exceed applicable regional thresholds of significance established by the South Coast Air Quality Management District (SCAQMD). For localized emissions, the project will not exceed applicable Localized Significance Thresholds (LSTs) established by the SCAQMD.

Project construction-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). As discussed herein, the project will comply with all applicable SCAQMD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS).

Given the temporary and short-term construction schedule, the project would not result in a long-term (i.e., lifetime or 30-year) exposure to TACs as a result of project construction. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds. Therefore, impacts from TACs during construction would be less than significant.

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less than significant.

Operational-Source Emissions

Project operational-sourced emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. Project operational-source emissions would not result in or cause a significant localized air quality or toxic air contaminant (TAC) impacts as discussed in the Operations-Related Local Air Quality Impacts section of this report. Additionally, project-related trips will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO "hotspots"). The Diesel Emissions Health Risk Assessment conducted for this project showed that DPM emissions from project-related truck trips will not cause a significantly elevated cancer risk or significant non-cancer-related health risk to nearby receptors. Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

Project operational-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). The project's emissions meet SCAQMD regional thresholds and will not result in a significant cumulative impact. The project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential operational-source odor impacts are therefore considered less than significant.

Greenhouse Gases

Project-related GHG emissions would not exceed the SCAQMD screening threshold of 10,000 MTCO₂e per year for industrial uses.

Furthermore, the project's GHG emissions would not exceed the SCAQMD screening threshold (based on EO S-3-05). The project would not conflict with the goals of AB-32, SB-32, or the City of Perris CAP; therefore, the project would not conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases and impacts are considered to be less than significant.

Energy

For new development such as that proposed by the Redlands Avenue East Industrial project, compliance with California Building Standards Code Title 24 energy efficiency requirements (CALGreen), are considered demonstrable evidence of efficient use of energy. As discussed below, the project would provide for, and promote, energy efficiencies required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the project's operation is calculated to be comparable to, or less than, energy consumed by other industrial uses of similar scale and intensity that are constructed and operating in California. On this basis, the project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Impacts are considered to be less than significant.

1. INTRODUCTION

This section describes the purpose of this air quality, global climate change, health risk assessment, and energy impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

This study was performed to address the possibility of regional/local air quality impacts and global climate change impacts, from project related air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- discussion of the health risk impacts
- analysis of the conformity of the proposed project with the SCAQMD AQMP
- analysis of the project's energy use during construction and operation
- recommendations for mitigation measures

The City of Perris is the lead agency for this air quality and greenhouse gas analysis, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality and global climate change, a definition of terms has been provided in Appendix A.

PROJECT LOCATION

The approximately 12.59-acre project site is located east of Redlands Avenue, south of Rider Street, and north of Placentia Avenue in the City of Perris, California. The site is currently vacant and located within the Perris Valley Commerce Center Specific Plan. A vicinity map showing the project location is provided on Figure 1.

PROJECT DESCRIPTION

The proposed project involves construction of a 250,511 square foot warehouse building with an additional 4,000 square foot mezzanine totaling 254,511 square feet of gross floor area. The project site is proposed to provide three access driveways on Redlands Avenue. The north and south project driveways will primarily serve truck traffic and the center driveway will serve passenger cars. Figure 2 illustrates the proposed site plan.

PHASING AND TIMING

The proposed project is anticipated to be constructed and fully operational by year 2023. The project is anticipated to be built in one phase with project construction anticipated to start no sooner than early November 2022 with completion estimated by the beginning of August 2023. Even if construction was to occur any time after the respective dates, the analysis represents “worst-case” since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.¹

¹ As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2020.4.0, Section 4.3.2 “OFFROAD Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

SENSITIVE RECEPTORS IN PROJECT VICINITY

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities (South Coast Air Quality Management District 2008). Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours.

The nearest sensitive receptors to the project site include the existing single-family residential dwelling units located adjacent to the north, east, and south and approximately 415 feet (~126 meters) to the west (across Redlands Avenue) of the project site.



Figure 1
Project Location Map

2. AIR QUALITY ANALYSIS

EXISTING AIR QUALITY CONDITIONS

Local Air Quality

The project is located within the City of Perris in the portion of Riverside County that lies within the South Coast Air Basin (Basin). The project area is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The Basin is a 6,600-square-mile coastal plain bounded by the Pacific Ocean to the southwest and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Basin includes the non-desert portions of Los Angeles, Riverside, and San Bernardino counties, and all of Orange County.

The ambient concentrations of air pollutants are determined by the amount of emissions released by sources and the atmosphere's ability to transport and dilute such emissions. Natural factors that affect transport and dilution include terrain, wind, atmospheric stability, and sunlight. Therefore, existing air quality conditions in the area are determined by such natural factors as topography, meteorology, and climate, in addition to the amount of emissions released by existing air pollutant sources.

Atmospheric conditions such as wind speed, wind direction, and air temperature gradients interact with the physical features of the landscape to determine the movement and dispersal of air pollutants. The topography and climate of southern California combine to make the Basin an area of high air pollution potential. The Basin is a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the west and high mountains around the rest of the perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds.

The usually mild climatological pattern is disrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds. During the summer months, a warm air mass frequently descends over the cool, moist marine layer produced by the interaction between the ocean's surface and the lowest layer of the atmosphere. The warm upper layer forms a cap over the cool marine layer and inhibits the pollutants in the marine layer from dispersing upward. In addition, light winds during the summer further limit ventilation. Furthermore, sunlight triggers the photochemical reactions that produce ozone. The region experiences more days of sunlight than any other major urban area in the nation except Phoenix (SCAQMD, 2007).

The temperature and precipitation levels for the City of Sun City, the closest station with updated data, are shown below in Table 1. Table 1 shows that August is typically the warmest month and December 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 1
Local Monthly Climate Data**

Descriptor	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Max. Temperature	66.7	68.1	71.1	77.2	83.2	91.8	97.6	98.6	93.5	84.2	71.2	66.9
Avg. Min. Temperature	36.3	38.9	41.6	45.1	50.1	54.5	58.6	60.1	57.4	49.3	39.4	35.4
Avg. Total Precipitation (in.)	2.29	3.08	1.95	0.79	0.31	0.07	0.04	0.22	0.1	0.45	0.71	1.33

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

Data from the Sun City, CA station (048655).

Pollutants

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.

Criteria Pollutants

The criteria pollutants consist of: ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, lead, and particulate matter. 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.

Nitrogen Dioxides

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 (O₃) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NO_x and volatile organic compounds (VOC) 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

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 about 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 Dioxide

Sulfur Oxide (SO_x) gases (including sulfur dioxide [SO₂]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SO_x dissolve 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 (Pb) 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

Particulate matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particulate matter 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) 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 (PM_{2.5}) 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.

Reactive Organic Gases (ROG)

Although not a criteria pollutant, reactive organic gases (ROGs), or volatile organic compounds (VOCs), are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM₁₀ and lower visibility.

Other Pollutants of Concern

Toxic Air Contaminants

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of toxic air contaminants 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 forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

Toxic air contaminants 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 toxic air contaminants with varying degrees of toxicity. Sources of toxic air contaminants include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2013 California Almanac of Emissions and Air Quality, the majority of the estimated health risk from toxic air contaminants can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM_{2.5} because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a toxic air contaminant 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 diesel particulate matter 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 diesel particulate matter as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to diesel particulate matter 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.

According to the SCAQMD's MATES-V study, the project area has an estimated multi-pathway cancer risk of 317 in a million and an inhalation pathway cancer risk of 291 in one million. In comparison the average multi-pathway cancer risk for the South Coast Air Basin portion of Riverside County is 332 in one million and the inhalation risk is 313 in a million cancer risk.

Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant 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. Naturally occurring asbestos is not present in Riverside County. 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 at Asbestos Mountain in the San Jacinto Mountains, approximately 45 miles southwest of the project site. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos.

REGULATORY SETTING

The proposed project is addressed through the efforts of various international, 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.

Federal – United States Environmental Protection Agency

The United States Environmental Protection Agency (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. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence and are shown below in Table 2.

The EPA and the California Air Resource Board (CARB) designate air basins where ambient air quality standards are exceeded as “nonattainment” areas. If standards are met, the area is designated as an “attainment” area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered “unclassified.” National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or ‘form’ of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM_{2.5} standard is met if the three-year average of the annual average PM_{2.5} concentration is less than or equal to the standard. Attainment status is shown in Table 3.

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 State Implementation Plan (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 State Implementation Plan (SIP).

As indicated below in Table 3, the Basin has been designated by the EPA as a non-attainment area for ozone (O₃) and suspended particulates (PM₁₀ and PM_{2.5}). Currently, the Basin is in attainment with the ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide (SO₂), suspended particulate matter (PM-2.5), and nitrogen dioxide (NO₂).

State – California Air Resources Board

The California Air Resources Board (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 State Implementation Plan (SIP). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 2. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. Furthermore, the motor vehicle emission standards established by CARB include compliance with the Safer Affordable Fuel-Efficient Vehicles (SAFE) Rule, issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020). The SAFE Rule sets fuel economy and carbon dioxide standards that increase 1.5 percent in stringency each year from model years 2021 through 2026, and apply to both passenger cars and light trucks. CARB. It also sets fuel specifications to further reduce vehicular emissions.

The South Coast Air Basin has been designated by the CARB as a nonattainment area for ozone, PM10 and PM2.5. Currently, the South Coast Air Basin is in attainment with the ambient air quality standards for CO, lead, SO2, NO2, and sulfates and is unclassified for visibility reducing particles and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 µg/m3 and established an annual average standard for PM2.5 of 12 µg/m3. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007 CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projected attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

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) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

The CARB is also responsible for regulations pertaining to toxic air contaminants. The Air Toxics “Hot Spots” Information and Assessment Act (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 into the South Coast Air Basin. 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.

AB 617 Nonvehicular air pollution: criteria air pollutants and toxic air contaminants

This bill requires the state board to develop a uniform statewide system of annual reporting of emissions of criteria air pollutants and toxic air contaminants for use by certain categories of stationary sources. The bill requires those stationary sources to report their annual emissions of criteria air pollutants and toxic air contaminants, as specified. This bill required the state board, by October 1, 2018, to prepare a monitoring plan regarding technologies for monitoring criteria air pollutants and toxic air contaminants and the need for and benefits of additional community air monitoring systems, as defined. The bill requires the state board to select, based on the monitoring plan, the highest priority locations in the state for the deployment of community air monitoring systems. The bill requires an air district containing a selected location, by July 1, 2019, to deploy a system in the selected location. The bill would authorize the air district to require a stationary source that emits air pollutants in, or that materially affect, the selected location to deploy a fence-line monitoring system, as defined, or other specified real-time, on-site monitoring. The bill authorizes the state board, by January 1, 2020, and annually thereafter, to select additional locations for the deployment of the systems. The bill would require air districts that have deployed a system to provide to the state board air quality data produced by the system. By increasing the duties of air districts, this bill would impose a state-mandated local program. The bill requires the state board to publish the data on its Internet Web site.

Regional

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

The 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. The 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. On June 30, 2016, the SCAQMD released its Draft 2016 AQMP. The 2016 AQMP is a regional blueprint for achieving the federal air quality standards and healthful air.

Air Quality Management Plan

The 2016 AQMP includes both stationary and mobile source strategies to ensure that rapidly approaching attainment deadlines are met, that public health is protected to the maximum extent feasible, and that the region is not faced with burdensome sanctions if the Plan is not approved or if the NAAQS are not met on time. As with every AQMP, a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures is updated with the latest data and methods. The most significant air quality challenge in the Basin is to reduce nitrogen oxide (NO_x) emissions sufficiently to meet the upcoming ozone standard deadlines. On March 23, 2017 the CARB approved the 2016 AQMP. The primary goal of this Air Quality Management Plan is to meet clean air standards and protect public health, including ensuring benefits to environmental justice and disadvantaged communities. Now that the Plan has been approved by the CARB, it has been forwarded to the U.S. EPA for its review. The Plan was approved by the EPA on June 15, 2017.

South Coast AQMD has initiated the development of the 2022 AQMP to address the attainment of the 2015 8-hour ozone standard (70 ppb) for South Coast Air Basin and Coachella Valley. To support the development of mobile source strategies for the 2022 AQMP, South Coast AQMD, in conjunction with California Air Resources Board, has established Mobile Source Working Groups which are open to all interested parties.

SCAQMD Rules and Regulations

During construction and operation, the project must comply with applicable rules and regulations. The following are the rules that the project may be required to comply with, either directly, or indirectly:

SCAQMD Rule 402

Prohibits a person from discharging 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 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.

SCAQMD Rule 403

Governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and

thus the PM₁₀ component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.
- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.
- Bumper strips or similar best management practices shall be provided where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Replanting disturbed areas as soon as practical.
- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

SCAQMD Rule 445

Prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British thermal units per hour.

SCAQMD Rule 481

Applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

- (1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.
- (2) Coatings are applied with high-volume low-pressure, electrostatic and/or airless spray equipment.
- (3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

SCAQMD Rule 1108

Governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

SCAQMD Rule 1113

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

SCAQMD Rule 1143

Governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

SCAQMD Rule 1186

Limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

SCAQMD Rule 1303

Governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for PM₁₀ among other pollutants.

SCAQMD Rule 1401

New Source Review of Toxic Air Contaminants, specifies limits for maximum individual cancer risk, cancer burden, and non-cancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units, which emit toxic air contaminants.

SCAQMD Rule 1403

Asbestos Emissions from Demolition/Renovation Activities, specifies work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials (ACM).

SCAQMD Rule 2202

On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health & Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-time basis at a worksite for a consecutive six-month period calculated as a monthly average.

SCAQMD Rule 2305

The Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program aims to reduce nitrogen oxide and diesel emissions associated with warehouses, help meet federal standards and improve public health. The WAIRE Program is an indirect source rule that regulates warehouse facilities to reduce emissions from the goods movement industry. Owners and operators of warehouses that have 100,000 square feet or more of indoor floor space in a single building must comply with the WAIRE Program. WAIRE is a menu-based point system in which warehouse operators are required to earn a specific number of points every year. The yearly number of points required is based on the number of trucks trips made to and from the warehouse

each year, with larger trucks such as tractors or tractor-trailers multiplied by 2.5. Warehouse operators may be exempt from parts of the rule if they operate less than 50,000 square feet of warehousing activities, if the number of points required is less than 10, or if the WAIRE menu action chosen under performs due to circumstances beyond the operator's control, such as a manufacturer defect. SCAQMD [Rule 316](#) establishes fees to fund Rule 2305 compliance activities.

Air Quality Guidance Documents

SCAQMD CEQA Handbook

Although the 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 South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance with 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 the 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 of the AQMP. 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 the 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. SCAQMD is in the process of developing an "Air Quality Analysis Guidance Handbook" to replace the CEQA Air Quality Handbook approved by the AQMD Governing Board in 1993. The 1993 CEQA Air Quality Handbook is still available but not online. In addition, there are sections of the 1993 Handbook that are obsolete. In order to assist the CEQA practitioner in conducting an air quality analysis while the new Handbook is being prepared, supplemental information regarding: significance thresholds and analysis, emissions factors, cumulative impacts emissions analysis, and other useful subjects, are available at the SCAQMD website². The SCAQMD CEQA Handbook and supplemental information is used in this analysis.

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 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 Regional Transportation Plan and Regional Transportation Improvement Plan (RTIP), which addresses regional development and growth forecasts. 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 Regional Transportation Plan, Regional Transportation Improvement Plan, and AQMP are based on projections originating within the City and County General Plans.

On April 7, 2016, SCAG's Regional Council adopted the 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS or Plan). The Plan is a long-range visioning plan that balances future mobility and housing needs with economic, environmental and public health goals. The Plan charts a course for closely integrating land use and transportation – so that the region can grow smartly and sustainably. It outlines more than \$556.5 billion in transportation system investments through 2040. The Plan was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration (FHWA) and the

² <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>.

Federal Transit Administration (FTA) indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 FTIP Consistency Amendment through Amendment 15-12 have been met.

On May 7, 2020, SCAG's Regional Council adopted Connect SoCal (2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy) for federal transportation conformity purposes only. In light of the COVID-19 pandemic, the Regional Council will consider approval of Connect SoCal in its entirety and for all other purposes within 120 days from May 7, 2020. Connect SoCal is a long-range visioning plan that builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. Connect SoCal outlines more than \$638 billion in transportation system investments through 2045. It was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura.

Local - City of Perris

Local jurisdictions, such as the City of Perris, 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 2016 AQMP. 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.

The City relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Air Quality Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

The Healthy Community Element as well as the Conservation Element of the Perris General Plan summarize air quality issues in the Basin, air quality-related plans and programs administered by federal, state, and special purpose agencies, and establishes goals and policies to improve air quality.

Applicable goals and policies from the Healthy Community Element include:

Goal HC-6 Healthy Environment – Support efforts of local businesses and regional agencies to improve the health of our region's environment.

Policy HC-6.1 Support regional efforts to improve air quality through energy efficient technology, use of alternative fuels, and land use and transportation planning.

Policy HC-6.3 Promote measures that will be effective in reducing emissions during construction activities

- Perris will ensure that construction activities follow existing South Coast Air Quality Management District (SCAQMD) rules and regulations.
- All construction equipment for public and private projects will also comply with California Air Resources Board's vehicle standards. For projects that may exceed daily construction emissions established by the SCAQMD, Best Available Control Measures will be incorporated to reduce construction emissions to below daily emission standards established by the SCAQMD.
- Project proponents will be required to prepare and implement a Construction Management Plan which will include Best Available Control Measures among others. Appropriate control measures will be determined on a project-by-project basis, and should be specific to the pollutant for which the daily threshold is exceeded.

Applicable goals and policies from the Conservation Element include:

Goal X Encourage improved energy performance standards above and beyond the California Title 24 requirements.

Policy X.B Encourage the use of trees within project design to lessen energy needs, reduce the urban heat island effect, and improve air quality throughout the region.

**Table 2
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 0.07 ppm/8-hour	0.070 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(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) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO ₂)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO ₂)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM ₁₀)	50 µg/m ³ /24-hour 20 µg/m ³ /annual	150 µg/m ³ /24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter (PM _{2.5})	12 µg/m ³ / annual	35 µg/m ³ /24-hour 12 µg/m ³ /annual	
Sulfates	25 µg/m ³ /24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) 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 conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

Source: <https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf>

**Table 3
South Coast Air Basin Attainment Status**

Pollutant	State Status	National Status
Ozone	Nonattainment	Nonattainment (Extreme)
Carbon monoxide	Attainment	Maintenance (Serious)
Nitrogen dioxide	Attainment	Maintenance (Primary)
Sulfur dioxide	Attainment	Attainment/Unclassified
PM10	Nonattainment	Maintenance (Serious)
PM2.5	Nonattainment	Nonattainment (Moderate)

Source (Federal and State Status): California Air Resources Board (2020) <https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations> & US EPA (2020) <https://www.epa.gov/green-book>.

MONITORED 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. Estimates of the existing emissions in the Basin provided in the Final 2016 Air Quality Management Plan prepared by SCAQMD (March 2017) indicate that collectively, mobile sources account for 60 percent of the VOC, 90 percent of the NO_x emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM_{2.5}, with another 13 percent of PM_{2.5} from road dust.

The SCAQMD has divided the South Coast Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in the Perris Valley Air Monitoring Area (Area 24), which is located in Riverside County and covers from the San Bernardino and Riverside County line on the north, Paloma Valley on the south, Perris on the west, and the San Jacinto Valley on the east. The nearest air monitoring station to the project site is the Perris Monitoring Station (Perris Station). The Perris Station is located approximately 2.6 miles southwest of the project site at 237 ½ N. D Street, Perris. As not all monitoring stations monitor all pollutants, data was also taken from the Lake Elsinore-W Flint Street Monitoring Station (Lake Elsinore Station) located approximately 12.09 miles southwest of the project site at 506 W Flint Street, Lake Elsinore. However, it should be noted that due to the air monitoring stations distances from the project site, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site. Table 4 presents the monitored pollutant levels from the Perris and Lake Elsinore Stations.

Table 4 summarizes 2018 through 2020 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the ozone standards.

Ozone

During the 2018 to 2020 monitoring period, the State 1-hour concentration standard for ozone was exceeded between 28 and 34 days each year at the Perris Station. The State 8-hour ozone standard has been exceeded between 66 and 77 days each year over the past three years at the Perris Station. The Federal 8-hour ozone standard was exceeded between 64 and 74 days each year over the past three years at the Perris 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 the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The Lake Elsinore Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

Nitrogen Dioxide

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

Particulate Matter

The State 24-hour concentration standards for PM₁₀ were exceeded between two and six days each year over the last three years at the Perris Station. Over the past three years, the Perris Station did not record an exceedance of the Federal 24-hour standards for PM₁₀.

There was insufficient data over the last three years for the Federal 24-hour standard for PM_{2.5} at the Lake Elsinore Station.

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.

**Table 4
Air Quality Monitoring Summary**

Pollutant (Standard) ¹		Year		
		2018	2019	2020
Ozone:	Maximum 1-Hour Concentration (ppm)	0.117	0.118	0.125
	Days > CAAQS (0.09 ppm)	31	28	34
	Maximum 8-Hour Concentration (ppm)	0.103	0.096	0.106
	Days > NAAQS (0.070 ppm)	67	64	74
	Days > CAAQS (0.070 ppm)	68	66	77
Carbon Monoxide: ²	Maximum 8-Hour Concentration (ppm)	*	*	*
	Days > CAAQS (9 ppm)	0	0	0
	Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide: ²	Maximum 1-Hour Concentration (ppm)	0.041	0.038	0.044
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):	Maximum 24-Hour Concentration (µg/m ³)	64.4	97.0	92.3
	Days > NAAQS (150 µg/m ³)	0	0	0
	Days > CAAQS (50 µg/m ³)	2	4	6
	Annual Average (µg/m ³)	30.2	25.8	33.4
Ultra-Fine Particulates (PM2.5): ²	Maximum 24-Hour Concentration (µg/m ³)	31.3	17.6	41.6
	Days > NAAQS (35 µg/m ³)	*	*	*
	Annual Average (µg/m ³)	6.7	*	7.2

Notes:

Source: <http://www.arb.ca.gov/adam/topfour/topfour1.php>. Data from the Perris Monitoring Station, unless otherwise noted.

(1) CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

* Means there was insufficient data available to determine value.

(2) Data taken from the Lake Elsinore-W Flint Street Monitoring Station.

AIR QUALITY STANDARDS

Significance Thresholds

Appendix G of the State CEQA Guidelines

Appendix G of the State CEQA Guidelines states that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make a significance determination. Pursuant to Appendix G, the project would result in a significant impact related to air quality if it would:

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

The CEQA Guidelines Section 15064.7 provides the significance criteria established by the applicable air quality management district or air pollution control district, when available, may be relied upon to make determinations of significance. The potential air quality impacts of the project are, therefore, evaluated according to thresholds developed by SCAQMD in their CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and subsequent guidance, which are listed below.³ Therefore, the project would result in a potentially significant impact to air quality if it would:

AIR-1: Conflict with or obstruct the implementation of the applicable air quality plan;

AIR-2: Violate any air quality standard or contribute substantially to an existing or projected air quality violation as a result of:

- Criteria pollutant emissions during construction (direct and indirect) in excess of the SCAQMD's regional significance thresholds,
- Criteria pollutant emissions during operation (direct and indirect) in excess of the SCAQMD's regional significance thresholds.

AIR-3: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);

AIR-4: Expose sensitive receptors to substantial pollutant concentrations that would:

- Exceed SCAQMD's localized significance thresholds,
- Cause or contribute to the formation of CO hotspots.

AIR-5: Create objectionable odors affecting a substantial number of people.

³ While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from industrial land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

The SCAQMD is in the process of developing an Air Quality Analysis Guidance Handbook to replace the CEQA Air Quality Handbook. In the interim, supplemental guidance has been adopted by the SCAQMD. The potential air quality impacts of the project are, therefore, evaluated according to numeric indicators developed by the SCAQMD in the CEQA Air Quality Handbook and supplemental guidance from the SCAQMD.⁴

Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the 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, the 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 South Coast 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 5.

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 South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significance Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significance Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significance Threshold Methodology found that the primary emissions of concern are NO₂, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of NO₂ and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 4 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significance Thresholds. Table 5 shows the ambient air quality standards for NO₂, CO, and PM10 and PM2.5.

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 hazardous air pollutants (HAP), 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 hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the

⁴ While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from residential land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

source of the hazardous air pollutants and the toxicity of the hazardous air pollutants should be analyzed through a comprehensive facility-wide health risk assessment (HRA).

The potential for health risks due to project-related diesel particulate matter (DPM) emissions is examined in Section 3 of this report.

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.

**Table 5
SCAQMD Air Quality Significance Thresholds**

Mass Daily Thresholds		
Pollutant	Construction (lbs/day)	Operation (lbs/day)
NOx	100	55
VOC	75	55
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3
Toxic Air Contaminants, Odor and GHG Thresholds		
TACs	Maximum Incremental Cancer Risk \geq 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas \geq 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
GHG	10,000 MT/yr CO ₂ e for industrial projects	
Ambient Air Quality Standards		
Pollutant	SCAQMD Standards	
NO ₂ -1-hour average	0.18 ppm (338 $\mu\text{g}/\text{m}^3$)	
PM10 -24-hour average		
Construction	10.4 $\mu\text{g}/\text{m}^3$	
Operations	2.5 $\mu\text{g}/\text{m}^3$	
PM2.5 -24-hour average		
Construction	10.4 $\mu\text{g}/\text{m}^3$	
Operations	2.5 $\mu\text{g}/\text{m}^3$	
SO ₂		
1-hour average	0.25 ppm	
24-hour average	0.04 ppm	
CO		
1-hour average	20 ppm (23,000 $\mu\text{g}/\text{m}^3$)	
8-hour average	9 ppm (10,000 $\mu\text{g}/\text{m}^3$)	
Lead		
30-day average	1.5 $\mu\text{g}/\text{m}^3$	
Rolling 3-month average	0.15 $\mu\text{g}/\text{m}^3$	
Quarterly average	1.5 $\mu\text{g}/\text{m}^3$	

Source: <http://www.aqmd.gov/ceqa/handbook/signthres.pdf>

SHORT-TERM CONSTRUCTION EMISSIONS

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the phasing, duration, and required equipment for the construction of the proposed project were obtained from the project applicant. The construction activities for the proposed project are anticipated to include: grading of approximately 12.59 acres; construction of a 254,511 square foot warehouse building (includes a 4,000 square foot mezzanine) and landscaping of approximately 61,752 square feet; paving of a parking lot with 114 automobile parking spaces and 47 trailer parking spaces and an additional approximately 3.97 acres for loading areas and driveways; and application of architectural coatings. Grading of the proposed project includes approximately 26,435 cubic yards of import. See Appendix B for more details.

The proposed project is anticipated to start construction no sooner than early November 2022 with completion estimated by the beginning of August 2023. The project is anticipated to be operational in 2023.

Methodology

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria pollutants. The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

Emissions are estimated using the CalEEMod (Version 2020.4.0) software, which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Regional data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered to be an accurate and comprehensive tool for quantifying air quality and GHG impacts from land use projects throughout California and is recommended by the SCAQMD.⁵

Daily regional emissions during construction are forecasted by assuming a conservative estimate of construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the mobile source and fugitive dust emissions factors. The input values used in this analysis were adjusted to be project-specific for the construction schedule and the equipment used was based on CalEEMod defaults. The CalEEMod program uses the EMFAC2017 computer program to calculate the emission rates specific for the southwestern portion of Riverside County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2017 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. Daily truck trips and CalEEMod default trip length data were used to assess roadway emissions from truck exhaust. The maximum daily emissions are estimated values for the worst-case day and do not represent the emissions that would occur for every day of project construction. The maximum daily emissions are compared to the SCAQMD daily regional numeric indicators. Detailed construction equipment lists, construction scheduling, and emission calculations are provided in Appendix B.

The project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent,

⁵ South Coast Air Quality Management District, California Emissions Estimator Model, <http://www.aqmd.gov/caleemod/>.

stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 12.59 acres) a Fugitive Dust Control Plan or Large Operation Notification would not be required.

SCAQMD's Rule 403 minimum requirements require that the application of the best available dust control measures is used for all grading operations and include the application of water or other soil stabilizers in sufficient quantity to prevent the generation of visible dust plumes. Compliance with Rule 403 would require the use of water trucks during all phases where earth moving operations would occur. Compliance with Rule 403 has been included in the CalEEMod modeling for the proposed project.

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied after January 1, 2014 will be limited to an average of 50 grams per liter or less of VOCs for building coatings and 100 grams per liter or less of VOCs for traffic coatings. CalEEMod defaults have been adjusted accordingly.

The phases of the construction activities which have been analyzed below for each phase are: (1) grading, (2) building construction, (3) paving, and (4) application of architectural coatings. Details pertaining to the project's construction timing and the type of equipment modeled for each construction phase are available in the CalEEMod output in Appendix B.

Construction-Related Regional Impacts

The construction-related criteria pollutant emissions for each phase are shown below in Table 6. Table 6 shows that none of the project's emissions will exceed regional thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

Construction-Related Local Impacts

Construction-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 South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

Local Air Quality Impacts from Construction

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain the following parameters:

- (1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
- (2) The maximum number of acres disturbed on the peak day.
- (3) Any emission control devices added onto off-road equipment.
- (4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The CalEEMod output in Appendix B show the equipment used for this analysis.

As shown in Table 7, the maximum number of acres disturbed in a day would be 4 acres during grading. The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold

Methodology prepared by SCAQMD (revised July 2008). 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. The emission thresholds were calculated based on the Perris Valley source receptor area (SRA) 24 and a disturbance value of two acres per day, to be conservative. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. The nearest sensitive receptors to the project site are the existing single-family residential dwelling units located adjacent to the north, east, and south and approximately 415 feet (~126 meters) to the west of the project site; therefore, the SCAQMD Look-up Tables for 25 meters was used. Table 8 shows the on-site emissions from the CalEEMod model for the different construction phases and the LST emissions thresholds.

The data provided in Table 8 shows that none of the analyzed criteria pollutants would exceed the local emissions thresholds at the nearest sensitive receptors. Therefore, a less than significant local air quality impact would occur from construction of the proposed project.

Construction-Related Human Health Impacts

Regarding health effects related to criteria pollutant emissions, the applicable significance thresholds are established for regional compliance with the state and federal ambient air quality standards, which are intended to protect public health from both acute and long-term health impacts, depending on the potential effects of the pollutant. Because regional and local emissions of criteria pollutants during construction of the project would be below the applicable thresholds, it would not contribute to long-term health impacts related to nonattainment of the ambient air quality standards. Therefore, significant adverse acute health impacts as a result of project construction are not anticipated.

Construction-Related Toxic Air Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to the Office of Environmental Health Hazard Assessment (OEHHA)⁶ and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),⁷ health effects from TACs are described in terms of individual cancer risk based on a lifetime (i.e., 30-year) resident exposure duration. Given the temporary and short-term construction schedule (approximately 9 months), the project would not result in a long-term (i.e., lifetime or 30-year) exposure as a result of project construction. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds.

The project would comply with the CARB Air Toxics Control Measure that limits diesel powered equipment and vehicle idling to no more than 5 minutes at a location, and the CARB In-Use Off-Road Diesel Vehicle Regulation; compliance with these would minimize emissions of TACs during construction. The project would also comply with the requirements of SCAQMD Rule 1403 if asbestos is found during the renovation and construction activities. Therefore, impacts from TACs during construction would be less than significant.

Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected to cease upon the drying or hardening of the odor

⁶ Office of Environmental Health Hazard Assessment, Air Toxic Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessment, February 2015, <https://oehha.ca.gov/media/downloads/cnr/2015guidancemanual.pdf>.

⁷ South Coast Air Quality Management District, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, August 2003, <http://www.aqmd.gov/docs/default-source/ceqa/handbook/mobile-source-toxics-analysis.doc?sfvrsn=2>.

producing materials. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

**Table 6
Construction-Related Regional Pollutant Emissions**

Activity		Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO ₂	PM10	PM2.5
Grading	On-Site ¹	3.62	38.84	29.04	0.06	5.27	2.94
	Off-Site ²	0.43	14.89	3.93	0.07	2.32	0.75
	Subtotal	4.05	53.73	32.97	0.13	7.58	3.68
Building Construction	On-Site ¹	2.57	23.26	22.83	0.04	1.17	1.10
	Off-Site ²	1.07	4.67	10.63	0.04	3.26	0.92
	Subtotal	3.63	27.93	33.45	0.08	4.43	2.03
Paving	On-Site ¹	1.74	10.19	14.58	0.02	0.51	0.47
	Off-Site ²	0.05	0.04	0.55	0.00	0.17	0.05
	Subtotal	1.80	10.23	15.13	0.02	0.68	0.51
Architectural Coating ³	On-Site ¹	42.29	1.30	1.81	0.00	0.07	0.07
	Off-Site ²	0.17	0.11	1.72	0.00	0.53	0.14
	Subtotal	42.46	1.41	3.54	0.01	0.60	0.21
Total for overlapping phases ³		47.89	39.57	52.12	0.11	5.71	2.75
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2020.4.0

- (1) On-site emissions from equipment operated on-site that is not operated on public roads. On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.
- (2) Off-site emissions from equipment operated on public roads.
- (3) Architectural coating emissions take into account SCAQMD Rule 1113 which limits architectural coatings to buildings to 50 g/L VOC.
- (4) Construction, painting and paving phases may overlap.

**Table 7
Maximum Number of Acres Disturbed Per Day**

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Grading	Rubber Tired Dozers	1	0.5	0.5
	Graders	1	0.5	0.5
	Scrapers	2	1.0	2.0
	Crawler Tractors ¹	2	0.5	1.0
Total for phase		-	-	4.0

Notes:

Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds, 2011b.

(1) Tractor/loader/backhoe is a suitable surrogate for a crawler tractor per SCAQMD staff.

**Table 8
Local Construction Emissions at the Nearest Receptors**

Activity	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Grading	38.84	29.04	5.27	2.94
Building Construction	23.26	22.83	1.17	1.10
Paving	10.19	14.58	0.51	0.47
Architectural Coating	1.30	1.81	0.07	0.07
SCAQMD Thresholds ¹	170	883	7	4
Exceeds Threshold?	No	No	No	No

Notes:

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 2 acres, to be conservative, at a distance of 25 m in SRA 24 Perris Valley.

(1) The nearest sensitive receptors are the existing single-family residential dwelling units located adjacent to the north, east, and south and approximately 415 feet west of the project site; therefore, the 25 meter threshold was used.

Note: The project will disturb up to a maximum of 4 acres a day during grading (see Table 7).

LONG-TERM 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 and through operational emissions 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 Air Quality Impacts

The potential operations-related air emissions have been analyzed below for the criteria pollutants and cumulative impacts.

Operations-Related Criteria Pollutants Analysis

The operations-related criteria air quality impacts created by the proposed project have been analyzed through the use of the CalEEMod model. The operating emissions were based on the year 2023, which is the anticipated opening year per the Redlands Avenue East Industrial Project Traffic Impact Analysis (TIA) prepared by Ganddini Group, Inc. (August 5, 2021) for the proposed project. The operations daily emissions printouts from the CalEEMod model are provided in Appendix B. The CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips (trip generation rate) from the TIA into the CalEEMod Model. The TIA found that the proposed project would create approximately 461 vehicle trips per day (non-PCE) and 654 vehicle trips per day (PCE) with a trip generation rate of 1.81 trips per thousand square foot per day. The program then applies the emission factors for each trip which is provided by the EMFAC2017 model to determine the vehicular traffic pollutant emissions.

The TIA found that the proposed warehouse would create 336 automobile round trips, 21 2-axle truck round trips, 26 3-axle truck round trips, and 78 4+-axle truck round trips per day (non-PCE). The vehicle mix for the Project was changed in CalEEMod to match the TIA (see Table 9) and the percentages in CalEEMod were changed to 73% autos (C-W) and 27% trucks (C-NW) to match the overall vehicle percentages given in the TIA. Due to the proposed project's location and proposed warehouse land use, the average customer based trip length was increased to 40 miles per SCAQMD recommendation, while all other trip lengths were based on the urban default values.

Area Sources

Per the CAPCOA Appendix A Calculation Details for CalEEMod, area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment. No changes were made to the default area source parameters.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

Project Impacts

The worst-case summer or winter criteria pollutant emissions created from the proposed project's long-term operations have been calculated and are shown below in Table 10. The results show that none of the SCAQMD regional thresholds would be exceeded. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

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 South Coast 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 analysis analyzes the vehicular CO emissions, local impacts from on-site operations per SCAQMD LST methodology, and odor impacts.

Local CO Emission 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 which were presented above.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above, a sensitivity analysis is typically conducted to determine the potential for CO "hot spots" at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, "hot spots" potentially can occur at high traffic volume intersections with a Level of Service E or worse.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans. In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: South Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The Los Angeles Department of Transportation evaluated the Level of Service in the vicinity of the Wilshire Boulevard/Veteran Avenue intersection and found it to be Level of Service E during the morning peak hour and Level of Service F during the afternoon peak hour.

The TIA showed that the proposed project would generate a maximum of approximately 461 daily vehicle trips. The intersection with the highest traffic volume is located at Rider Street and Redlands Avenue and has an Existing Plus Project AM peak hour volume of 307 vehicles. The 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) showed that an intersection which has a daily traffic volume of approximately 100,000 vehicles per day would not violate the CO standard. Therefore, as the intersection volume falls far

short of 100,000 vehicles per day, no CO “hot spot” modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

Local Air Quality Impacts from On-Site Operations

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site 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 South Coast Air Basin. The nearest sensitive receptors that may be impacted by the proposed project are the existing single-family residential dwelling units located adjacent to the north, east, and south and approximately 415 feet (~126 meters) to the west of the project site.

The local air quality emissions from on-site operations were analyzed according to the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. 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. Per SCAQMD staff, the 5-acre Look-up Table, which is the largest site available, can be used as a conservative screening analysis for on-site operational emissions to determine whether more-detailed dispersion modeling would be necessary. The proposed project was analyzed based on the Perris Valley source receptor area (SRA) 24 and, as the site is 12.59 acres, used the thresholds for a five-acre project site.

Table 11 shows the on-site emissions from the CalEEMod model that includes natural gas usage, landscape maintenance equipment, and vehicles operating on-site and the calculated emissions thresholds. Per LST methodology, mobile emissions include only on-site sources which equate to approximately 10 percent of the project-related new mobile sources.⁸ The data provided in Table 11 shows that the on-going operations of the proposed project would not exceed SCAQMD local operational thresholds of significance discussed above. 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 Human Health Impacts

Regarding health effects related to criteria pollutant emissions, the applicable significance thresholds are established for regional compliance with the state and federal ambient air quality standards, which are intended to protect public health from both acute and long-term health impacts, depending on the potential effects of the pollutant. Because regional and local emissions of criteria pollutants during operation of the project would be below the applicable thresholds, it would not contribute to long-term health impacts related to nonattainment of the ambient air quality standards. Therefore, significant adverse acute health impacts as a result of project operation are not anticipated.

Operations-Related Odor Impacts

Potential sources that may emit odors during the on-going operations of the proposed project would include odor emissions from the intermittent diesel delivery truck emissions and trash storage areas. Due to the distance of the nearest receptors from the project site and through compliance with SCAQMD’s Rule 402 no significant impact related to odors would occur during the on-going operations of the proposed project.

⁸ The project site is approximately 0.23 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/36th of the shortest CalEEMod default distance of 8.4 miles. Therefore, to be conservative, 1/10th the distance (dividing the mobile source emissions by 10) was used to represent the portion of the overall mobile source emissions that would occur on-site.

Table 9
CalEEMod Revised Vehicle Mix Parameters

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix ¹		CalEEMod Revised Mix ²	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.535	247	0.420	194
Light Truck < 3750 lbs	Automobile	0.056	26	0.044	20
Light Truck 3751-5750 lbs	Automobile	0.173	80	0.136	63
Med Truck 5751-8500 lbs	Automobile	0.141	65	0.111	51
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.027	12	0.035	16
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.007	3	0.010	4
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.011	5	0.056	26
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.019	9	0.169	78
Other Bus	--	0.001	0	0.000	0
Urban Bus	--	0.000	0	0.000	0
Motorcycle	Automobile	0.024	11	0.019	9
School Bus	--	0.001	1	0.000	0
Motor Home	--	0.005	3	0.000	0
Total		1.0	461	1.0	461

Notes:

- (1) Source: CalEEMod Version 2020.4.0 default values for Opening year of 2023.
- (2) Revised per the vehicle mix provided in the Traffic Scope Approval Form (Ganddin Group, Inc., June 29, 2021) of 73% Autos, 4.5% 2-Axle Trucks, 5.6% 3-Axle Trucks and 16.9% 4+ Axle Trucks.

**Table 10
Regional Operational Pollutant Emissions**

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources ¹	5.82	0.00	0.05	0.00	0.00	0.00
Energy Usage ²	0.02	0.14	0.12	0.00	0.01	0.01
Mobile Sources ³	1.98	12.57	26.41	0.11	7.97	2.25
Total Emissions	7.81	12.71	26.57	0.11	7.98	2.26
SCAQMD Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2020.4.0; the higher of either summer or winter emissions.

- (1) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.
- (2) Energy usage consists of emissions from generation of electricity and on-site natural gas usage.
- (3) Mobile sources consist of emissions from vehicles and road dust.

Table 11
Local Operational Emissions at the Nearest Receptors

On-Site Emission Source	On-Site Pollutant Emissions (pounds/day) ¹			
	NOx	CO	PM10	PM2.5
Area Sources ²	0.00	0.05	0.00	0.00
Energy Usage ³	0.14	0.12	0.01	0.01
Vehicle Emissions ⁴	1.26	2.64	0.80	0.22
Total Emissions	1.39	2.81	0.81	0.24
SCAQMD Thresholds ⁵	270	1,577	4	2
Exceeds Threshold?	No	No	No	No

Notes:

- (1) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 5 acres in SRA 24.
- (2) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.
- (3) Energy usage consists of emissions from on-site natural gas usage.
- (4) On-site vehicular emissions based on 1/10 of the gross vehicular emissions and road dust.
- (5) The nearest sensitive receptors are the existing single-family residential dwelling units located adjacent to the north, east, and south and approximately 415 feet west of the project site; therefore, the 25 meter threshold was used.

CUMULATIVE AIR QUALITY IMPACTS

There are a number of cumulative projects in the project area that have not yet been built or are currently under construction. Since the timing or sequencing of the cumulative projects is unknown, any quantitative analysis to ascertain daily construction emissions that assumes multiple, concurrent construction projects would be speculative. Further, cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered would cover an even larger area. The SCAQMD recommends using two different methodologies: (1) that project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality;⁹ and (2) that a project's consistency with the current AQMP be used to determine its potential cumulative impacts.

Project Specific Impacts

The project area is out of attainment for ozone, PM10, and PM2.5. Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air cell will be the incremental addition of pollutants mainly from increased traffic volumes from residential, commercial, and industrial development and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or state non-attainment pollutant.

Project operations would generate emissions of NOx, ROG, CO, PM10, and PM2.5, which, would not exceed the SCAQMD regional or local thresholds and would not be expected to result in ground level concentrations that exceed the NAAQS or CAAQS. Since the project would not introduce any substantial stationary sources of emissions, CO is the benchmark pollutant for assessing local area air quality impacts from post-construction motor vehicle operations. As indicated earlier, no violations of the state and federal CO standards are projected to occur for the project, based on the magnitude of traffic the project is anticipated to create. Therefore, operation of the project would not result in a cumulatively considerable net increase for non-attainment of criteria pollutants or ozone precursors. As a result, the project would result in a less than significant cumulative impact for operational emissions.

Air Quality Compliance

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 Air Quality Management Plan (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.

⁹ South Coast Air Quality Management District, Potential Control Strategies to Address Cumulative Impacts from Air Pollution White Paper, 1993, <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>.

The SCAQMD CEQA Handbook states that "New or amended General Plan 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 in 2016 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

Criteria 1 – Increase in the Frequency or Severity of Violations

Based on the air quality modeling analysis contained in this Air Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that, long-term operations impacts will not result in significant impacts based on the SCAQMD local and regional thresholds of significance.

Therefore, the proposed project is not projected to contribute to the exceedance of any air pollutant concentration standards and is found to be consistent with the AQMP for the first criterion.

Criteria 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 ensure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The 2020-2045 Regional Transportation/Sustainable Communities Strategy prepared by SCAG (2020) includes chapters on: the challenges in a changing region, creating a plan for our future, and the road to greater mobility and sustainable growth. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA. For this project, the City of Perris Land Use Plan defines the assumptions that are represented in the AQMP.

The project site has a Land Use Designation in the Perris Valley Commerce Center Specific Plan of Light Industrial. The project proposes to develop the site with a 254,511 square foot warehouse. Therefore, the proposed project is consistent with the City's land use designation. The proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

Based on the above, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur.

3. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The on-going operation of the proposed project would generate toxic air contaminant emissions from diesel truck emissions created by the on-going operations of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.¹⁰

A health risk assessment requires the completion and interaction of four general steps:

- (1) Quantify project-generated TAC emissions.
- (2) Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).
- (3) Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.
- (4) Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

EMISSIONS INVENTORY DEVELOPMENT

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.

Emission Source Estimates – DPM for Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2021 emissions factor model. Truck mix information was obtained from the *Redlands Avenue East Industrial Project* (TIA) prepared by Ganddini Group, Inc. (August 5, 2021).

Four pieces of information are required to generate the mobile source emissions from the proposed project:

- Number of vehicle trips for each component of the proposed project;
- Types of vehicles that access the proposed project (passenger car vs. heavy-duty truck and gasoline vs. diesel);
- The allocation of the vehicle trips to each building that comprises the proposed project; and
- Estimate of the vehicle emission factors for estimating exhaust and idling emissions.

Estimate of Vehicle Trips and Vehicle Types

The TIA showed the project is expected to generate approximately 461 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, 336 are automobile round trips, 21 are 2-axle truck round trips, 26 are 3-axle truck round trips, and 78 are 4+-axle truck round trips per day (non-passenger car equivalents).

¹⁰ In February 2015, the Office of Environmental Health Hazard Assessment updated their "Air Toxics Hot Spots Program, Risk Assessments Guidelines, Guidance Manual for Preparation of Health Risk Assessments; however, the updated OEHHA guidance states in the page footers "do not cite or quote." SCAQMD staff have incorporated the updates into their methodology for SCAQMD's Rules 1401, 1401.1, 1402, and 212, and have updated their HRA Guidance for permitting; however they are still in the process of updating the guidance for CEQA analyses (via working group sessions); however, to be conservative, the new OEHHA guidance was used to assess HRA impacts in this analysis. Per SCAQMD staff (personal communication with Dr. Jillian Wong 6-19-2015 and 12-22-15), updated SCAQMD HRA guidance will be forthcoming.

Estimate of Emission Factors

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2021 mobile source emission model. The emissions factors were derived for Riverside County. Third trimester exposure used opening year (2023) emissions factors, 2-year factors (for infant exposure) reflect years 2024 and 2025, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2026 to 2039), the second 14 years of exposure (years 2040-2053) were used for assessment of exposure during years 16 to 30.

Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance to the loading docks, and while idling at the loading dock during loading or unloading materials. All vehicles were assumed to travel on-site at a speed of 10 miles per hour. Off-site, the speeds along the roads were anticipated to average 35 miles per hour. Delivery vehicles were assumed to idle for a maximum of 15 minutes per vehicle per day (5 minutes per location: at the facility entrance, at the loading bay/truck parking area, and at the facility exit), in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). The four different sets of emissions factors used in this assessment are detailed in Table 12. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2023 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle “big rig” trucks). This is due to the CARB emissions’ requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

Emission Source Characterization

Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. Table 13 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 13:

- Point source: A single, identifiable, local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc., for example, a truck idle location where emissions are sourced from the truck’s exhaust stack while the vehicle is stationary.
- Line source: A series of volume sources along a path, for example, vehicular traffic volumes along a roadway.

Figure 3 provides the location of the project buildings, emission source locations, and the locations of the nearest sensitive receptors (the existing single-family residential dwelling units located adjacent to the north, east, and south and approximately 415 feet west (across Redlands Avenue) of the project site. Residential receptors are shown as orange triangles labeled 1 through 9. The direction of on-site and off-site truck travel were obtained from the site plan, TIA, and City truck routes.

RECEPTOR NETWORK

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Receptors were located at existing sensitive receptors surrounding the proposed project (as detailed above). In addition, the identified sensitive receptor locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify other potential locations of impact. The locations of the receptors are shown as orange triangles on Figure 3.

DISPERSION MODELING

The next step in the assessment process utilizes the emissions inventory along with a mathematical air dispersion model and representative meteorological data to calculate impacts at the various receptor locations. The dispersion model used in this assessment is described below.

Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex with the inclusion of building downwash effects from buildings on pollutant dispersion. It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios.

General Model Assumptions

A summary of Emission Configurations is shown in Table 13. The basic options used in the dispersion modeling are summarized in Table 14.

As indicated in Table 14 the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source and building locations were taken from the project site plan. The proposed building geometries were obtained from the project plans, assuming a building height of approximately 46 feet.

Meteorological Data

Meteorological data (processed with the ADJ_U option) from the Air District's Perris monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2012 to December 31, 2016 by the SCAQMD. The SCAQMD processed the data for input to the model. The data was obtained at SCAQMD's <https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod> (see Figure 4).

ESTIMATION OF HEALTH RISKS

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below.

Cancer Risks

According to the *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, released by the Office of Environmental Health Hazard Assessment (OEHHA) in February 2015 and formally adopted in March 2015, the residential inhalation dose for cancer risk assessment should be calculated using the following formula:

$[\text{Dose-air (mg)/(Kg-day)}] * \text{Cancer Potency} * [1 \times 10^{-6}] = \text{Potential Cancer Risk}$

Where:

Cancer Potency Factor = 1.1

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

Where:

Cair [Concentration in air ($\mu\text{g}/\text{m}^3$)] = (Calculated by AERMOD Model)

DBR [Daily breathing rate (L/kg body weight - day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per SCAQMD Permit Application Package "N" Table 4.1 D guidance.

A [Inhalation absorption factor] = 1

EF [Exposure frequency (days/year)] = 350

ED [Exposure duration (years)] = 30 for adults (for an individual who is an adult at opening year), 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 1 for 3rd Trimester

ASF [Age sensitivity factor] = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age

FAH [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age

10^6 [Micrograms to milligrams conversion]

AT [Average time period over which exposure is averaged in days] = 25,550

The model run results are shown in Appendix B. Figure 5 illustrates the cancer risk to the most affected age-group, children (2-16 years).

Table 15 show the cancer risk for the unborn child during the 3rd trimester, Table 16 shows the cancer risk to infants (0-2 years), Table 17 shows the cancer risk to children ages 2 to 16 years and Table 18 shows the cancer risk as that child becomes an adult (years 16-30). The highest cancer risk corresponds to child cancer risk 2-16 years (see Table 17), and is at receptor 1, with a maximum risk of 0.81 in one million. The highest infant cancer risk 0-2 years is also at receptor 1; also, with a maximum risk of 0.81 in one million. Therefore, no children or infants are exposed to cancer risks in excess of 10 in a million.

The assessment of cancer-related health risk to sensitive receptors within the project vicinity is based on the following most-conservative scenario:

An unborn child in its 3rd trimester is potentially exposed to DPM emissions (via exposure of the mother) during the opening year. That child is born opening year and then remains at home for the entire first two years of life. From age 2 to 16, the child remains at home 100 percent of the time. From age 16 to 30, the child continues to live at home, growing into an adult that spends 73 percent of its time at home and lives there until age 30.

Based on the above, ultra-conservative assumptions, the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the project, and located in the project vicinity for the entire 30-year duration, is a maximum of 1.74 in a million at receptor location 1, as shown in Table 19. As the residential cancer risk does not exceed 10 in a million, the on-going operations of the proposed project would result in a less than significant impact due to the cancer risk from diesel emissions created by the proposed project.

Non-Cancer Risks

The relationship for non-cancer health effects is given by the equation:

$$\text{HIDPM} = \text{CDPM}/\text{RELDPM}$$

Where,

HIDPM = Hazard Index; an expression of the potential for non-cancer health effects.

CDPM = Annual average diesel particulate matter concentration in $\mu\text{g}/\text{m}^3$.

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

The non-carcinogenic hazards to adult, child and infant receptors are also detailed in Tables 15 through 18 column (j). The RELDPM is $5 \mu\text{g}/\text{m}^3$. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration from years 2021-2051, the resulting Hazard Index is:

$$\text{HIDPM} = 0.00251/5 = 0.0005$$

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

Table 12
DPM Emissions Factors for the Proposed Project

Vehicle Class	1-Year Average (Opening Year 2023)		
	On-Site Travel (g/mi)	Off-Site Travel (g/mi)	Idling (g/hr)
Light Heavy Duty Truck 2	0.04961	0.01929	0.78770
Medium Heavy Duty Truck	0.00584	0.00393	0.04397
Heavy Heavy Duty Truck	0.01139	0.00878	0.01257

Vehicle Class	2-Year Average (2024-25)		
	On-Site Travel (g/mi)	Off-Site Travel (g/mi)	Idling (g/hr)
Light Heavy Duty Truck 2	0.04668	0.01861	0.78961
Medium Heavy Duty Truck	0.00563	0.00395	0.03562
Heavy Heavy Duty Truck	0.01134	0.00889	0.01221

Vehicle Class	First 14 -Year Average (2026-2039)		
	On-Site Travel (g/mi)	Off-Site Travel (g/mi)	Idling (g/hr)
Light Heavy Duty Truck 2	0.03597	0.01602	0.79372
Medium Heavy Duty Truck	0.00485	0.00384	0.01499
Heavy Heavy Duty Truck	0.01025	0.00842	0.01085

Vehicle Class	Second 14 -Year Average (2040-2053)		
	On-Site Travel (g/mi)	Off-Site Travel (g/mi)	Idling (g/hr)
Light Heavy Duty Truck 2	0.02896	0.01430	0.79463
Medium Heavy Duty Truck	0.00434	0.00367	0.00764
Heavy Heavy Duty Truck	0.00957	0.00810	0.01014

Notes:

Source: EMFAC2021.

**Table 13
Summary of Emission Configurations**

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Truck Traffic	Line Sources	Stack release height: 12 feet
		Vehicle speed: 35 mph
		Length of the line source along Redlands Avenue.
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Traffic	Line Sources	Stack release height: 12 feet
		Vehicle speed: 10 mph
		Length of the line source (from the northern driveway around the building to the southern driveway)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Idling	Point Source located at Project Buildings	Stack release height: 12 feet
		Stack release characteristics
		> Stack diameter: 0.1 meter (0.3 feet)
		> Stack velocity: 51.9 mps (170 feet/sec)
		> Stack temperature: 366 °k (200° F)
		Idle time: 15 minutes per truck per day
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021

Table 14
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 m
Emission source configuration	See Table 13
Regulatory dispersion options	Default
Land use	Urban
Coordinate system	UTM, Zone 11 north
Building downwash	Included in calculations
Receptor height	0 meters above ground (per OEHHA methodology)
Meteorological data	SCAQMD Perris Meteorological Data

**Table 15
Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-Year)**

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00251	2.5E-06	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0005
2	0.00064	6.4E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
3	0.0009	9.0E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
4	0.00099	9.9E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
5	0.00156	1.6E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
6	0.0011	1.1E-06	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
7	0.00051	5.1E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
8	0.00062	6.2E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
9	0.00075	7.5E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake:

Exposure Frequency (days/year)	350
Exposure Duration (years)	0.25
Daily Breathing Rate	361
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	91.25

E= 10^X, i.e. E-02 = 10⁻²

**Table 16
Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-Year)**

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00247	2.5E-06	1.00E+00	DPM	1.1E+00	0.81	5.0E+00	1.4E-03	0.0005
2	0.00063	6.3E-07	1.00E+00	DPM	1.1E+00	0.21	5.0E+00	1.4E-03	0.0001
3	0.00089	8.9E-07	1.00E+00	DPM	1.1E+00	0.29	5.0E+00	1.4E-03	0.0002
4	0.00098	9.8E-07	1.00E+00	DPM	1.1E+00	0.32	5.0E+00	1.4E-03	0.0002
5	0.00155	1.6E-06	1.00E+00	DPM	1.1E+00	0.51	5.0E+00	1.4E-03	0.0003
6	0.00109	1.1E-06	1.00E+00	DPM	1.1E+00	0.36	5.0E+00	1.4E-03	0.0002
7	0.0005	5.0E-07	1.00E+00	DPM	1.1E+00	0.16	5.0E+00	1.4E-03	0.0001
8	0.00061	6.1E-07	1.00E+00	DPM	1.1E+00	0.20	5.0E+00	1.4E-03	0.0001
9	0.00075	1.9E-04	1.00E+00	DPM	1.1E+00	0.25	5.0E+00	1.4E-03	0.0002

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	2
Daily Breathing Rate	1090
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	730

E= 10^X, i.e. E-02 = 10⁻²

Table 17
Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario (2-16 Years)

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00225	2.3E-06	1.00E+00	DPM	1.1E+00	0.81	5.0E+00	1.4E-03	0.0005
2	0.0006	6.0E-07	1.00E+00	DPM	1.1E+00	0.22	5.0E+00	1.4E-03	0.0001
3	0.00084	8.4E-07	1.00E+00	DPM	1.1E+00	0.30	5.0E+00	1.4E-03	0.0002
4	0.00093	9.3E-07	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
5	0.00148	1.5E-06	1.00E+00	DPM	1.1E+00	0.54	5.0E+00	1.4E-03	0.0003
6	0.00104	1.0E-06	1.00E+00	DPM	1.1E+00	0.38	5.0E+00	1.4E-03	0.0002
7	0.00048	4.8E-07	1.00E+00	DPM	1.1E+00	0.17	5.0E+00	1.4E-03	0.0001
8	0.00058	5.8E-07	1.00E+00	DPM	1.1E+00	0.21	5.0E+00	1.4E-03	0.0001
9	0.00071	7.1E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	572
Age Sensitivity Factor	3
Fraction of Time At Home (FAH)	1
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	5110

E= 10^X, i.e. E-02 = 10⁻²

Table 18
Carcinogenic Risks and Non-Carcinogenic Hazards Adult Exposure Scenario (16-30 Years)

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00211	2.1E-06	1.00E+00	DPM	1.1E+00	0.08	5.0E+00	1.4E-03	0.0004
2	0.00058	5.8E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
3	0.00082	8.2E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0002
4	0.00091	9.1E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
5	0.00144	1.4E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0003
6	0.00101	1.0E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
7	0.00046	4.6E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
8	0.00056	5.6E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
9	0.00069	6.9E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	261
Age Sensitivity Factor	1
Fraction of Time At Home (FAH)	0.73
Averaging Time _(cancer) (days)	25550
Averaging Time _(non-cancer) (days)	5110

E= 10^X, i.e. E-02 = 10⁻²

Table 19
Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	1.74
2	0.46
3	0.64
4	0.71
5	1.12
6	0.79
7	0.36
8	0.44
9	0.54

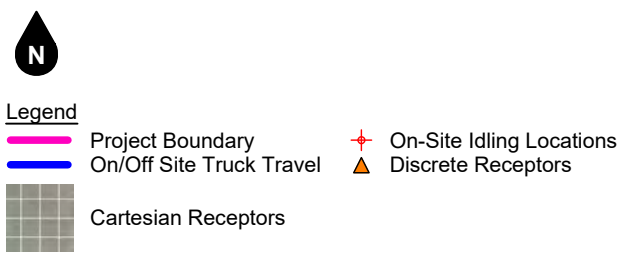


Figure 3
AERMOD Model Source and Receptor Placement

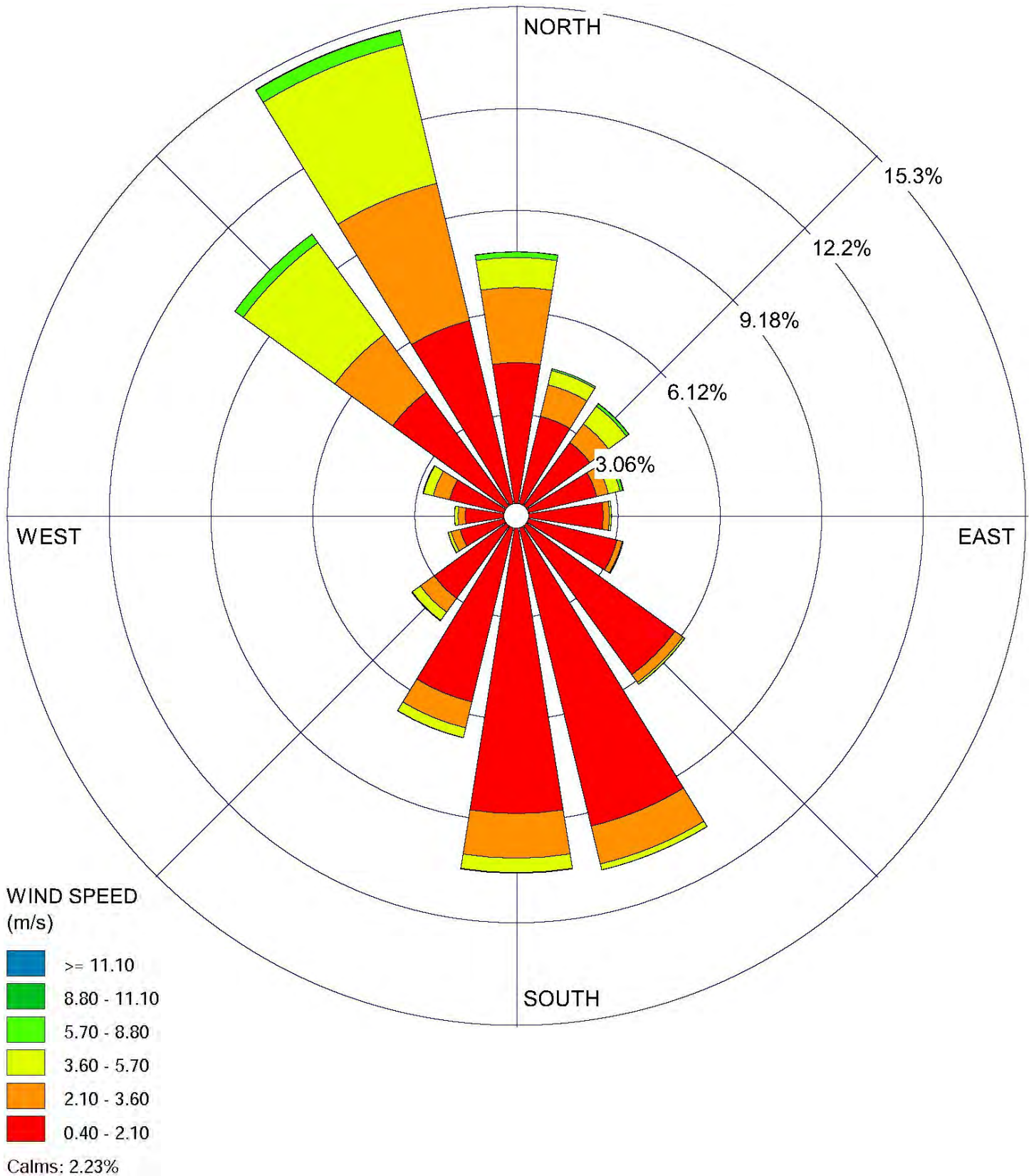


Figure 4
Wind Rose: Perris

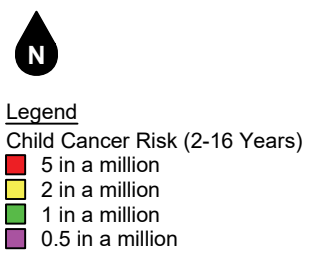


Figure 5
Modeled Study Area Highest Annual DPM Emissions

4. GLOBAL CLIMATE CHANGE ANALYSIS

EXISTING GREENHOUSE GAS ENVIRONMENT

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted 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. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO₂ and nitrous oxide (NO_x) 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 (CO₂)

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 Fifth Assessment Report, 2014) Emissions of CO₂ from fossil fuel combustion and industrial processes contributed about 78% of the total GHG emissions increase from 1970 to 2010, with a similar percentage contribution for the increase during the period 2000 to 2010. Globally, economic and population growth continued to be the most important drivers of increases in CO₂ emissions from fossil fuel combustion. The contribution of population growth between 2000 and 2010 remained roughly identical to the previous three decades, while the contribution of economic growth has risen sharply.

Methane (CH₄)

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 Chlorofluorocarbons (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 anthropocentric sources include fossil-fuel combustion and biomass burning.

Nitrous Oxide (N₂O)

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. It 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 in race cars).

Chlorofluorocarbons (CFC)

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C₂H₆) 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. It was 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 (HFC)

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 (PFC)

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 (SF₆)

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.

Global Warming Potential

The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO₂). The larger the GWP, the more that a given gas warms the Earth compared to CO₂ over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure, which allows analysts to add up emissions estimates of different gases (e.g., to compile a national GHG inventory), and allows policymakers to compare emissions reduction opportunities across sectors and gases. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in Table 20. As shown in Table 20, the global warming potential of GHGs ranges from 1 to 22,800.

Table 20
Global Warming Potentials and Atmospheric Lifetimes

Gas	Atmospheric Lifetime	Global Warming Potential ¹ (100 Year Horizon)
Carbon Dioxide (CO ₂)	-- ²	1
Methane (CH ₄)	12	28-36
Nitrous Oxide (NO)	114	298
Hydrofluorocarbons (HFCs)	1-270	12-14,800
Perfluorocarbons (PFCs)	2,600-50,000	7,390-12,200
Nitrogen trifluoride (NF ₃)	740	17,200
Sulfur Hexafluoride (SF ₆)	3,200	22,800

Notes:

Source: <http://www3.epa.gov/climatechange/ghgemissions/gases.html>

- (1) Compared to the same quantity of CO₂ emissions.
- (2) Carbon dioxide's lifetime is poorly defined because the gas is not destroyed over time, but instead moves among different parts of the ocean-atmosphere-land system. Some of the excess carbon dioxide will be absorbed quickly (for example, by the ocean surface), but some will remain in the atmosphere for thousands of years, due in part to the very slow process by which carbon is transferred to ocean sediments.

GREENHOUSE GAS STANDARDS AND REGULATION

International

Montreal Protocol

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (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. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

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.

The Paris Agreement

The Paris Agreement became effective on November 4, 2016. Thirty days after this date at least 55 Parties to the United Nations Framework Convention on Climate Change (Convention), accounting in total for at least an estimated 55 % of the total global greenhouse gas emissions, had deposited their instruments of ratification, acceptance, approval or accession with the Depositary.

The Paris Agreement built upon the Convention and – for the first time – attempted to bring all nations into a common cause to undertake ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so. As such, it charts a new course in the global climate effort.

The Paris Agreement's central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. Additionally, the agreement aims to strengthen the ability of countries to deal with the impacts of climate change. To reach these ambitious goals, appropriate financial flows, a new technology framework and an enhanced capacity building framework will be put in place, thus supporting action by developing countries and the most vulnerable countries, in line with their own national objectives. The Agreement also provides for enhanced transparency of action and support through a more robust transparency framework.

Federal

The United States Environmental Protection Agency (USEPA) is responsible for implementing federal policy to address GHGs. The federal government administers a wide array of public-private partnerships to reduce the GHG intensity generated in the United States. These programs focus on energy efficiency, renewable energy, methane and other non-CO₂ gases, agricultural practices, and implementation of technologies to achieve GHG reductions. The USEPA implements numerous voluntary programs that contribute to the reduction of GHG emissions. These programs (e.g., the ENERGY STAR labeling system for energy-efficient products) play a significant role in encouraging voluntary reductions from large corporations, consumers, industrial and commercial buildings, and many major industrial sectors.

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 will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

Clean Air Act

In *Massachusetts v. Environmental Protection Agency* (Docket No. 05-1120), the U.S. Supreme Court held in April of 2007 that the USEPA has statutory authority under Section 202 of the federal Clean Air Act (CAA) to regulate GHGs. The court did not hold that the USEPA was required to regulate GHG emissions; however, it indicated that the agency must decide whether GHGs cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare. On December 7, 2009, the USEPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA. The USEPA adopted a Final Endangerment Finding for the six defined GHGs (CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆) on December 7, 2009. The Endangerment Finding is required before USEPA can regulate GHG emissions under Section 202(a)(1) of the CAA consistently with the United States Supreme Court decision. The USEPA also adopted a Cause or Contribute Finding in which the USEPA Administrator found that GHG emissions from new motor vehicle and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not, by themselves, impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

Energy Independence Security Act

The Energy Independence and Security Act of 2007 (EISA) facilitates the reduction of national GHG emissions by requiring the following:

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

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green jobs.¹¹

Executive Order 13432

In response to the *Massachusetts v. Environmental Protection Agency* ruling, the President signed Executive Order 13432 on May 14, 2007, directing the USEPA, along with the Departments of Transportation, Energy, and Agriculture, to initiate a regulatory process that responds to the Supreme Court's decision. Executive Order 13432 was codified into law by the 2009 Omnibus Appropriations Law signed on February 17, 2009. The order sets goals in the areas of energy efficiency, acquisition, renewable energy, toxics reductions, recycling, sustainable buildings, electronics stewardship, fleets, and water conservation. Light-Duty Vehicle Greenhouse Gas and Corporate Average Fuel Economy Standards.

On May 19, 2009, President Obama announced a national policy for fuel efficiency and emissions standards in the United States auto industry. The adopted federal standard applies to passenger cars and light-duty trucks for model years 2012 through 2016. The rule surpasses the prior Corporate Average Fuel Economy standards (CAFE)¹² and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO₂ per mile by model year 2016, based on USEPA calculation methods. These standards were formally adopted on April 1, 2010. In August 2012, standards were adopted for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2025, vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO₂ per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.¹³ In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO₂ standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO₂ standards for model year 2020 are 43.7 mpg and 204 grams of CO₂ per mile for passenger cars and 31.3 mpg and 284 grams of CO₂ per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. This Rule also excludes CO₂-equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.¹⁴

On May 12, 2021, the National Highway Traffic Safety Administration (NHTSA) published a [notice of proposed rulemaking](#) in the Federal Register, proposing to repeal "The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program," published Sept. 27, 2019 (SAFE I Rule), in which NHTSA codified regulatory text and made additional pronouncements regarding the preemption of state and local laws related to fuel economy standards. Specifically, this document proposes to fully repeal the regulatory text and appendices promulgated in the SAFE I Rule. In addition, this document proposes to repeal and withdraw the interpretative statements made by the Agency in the SAFE I Rule preamble, including those

¹¹ A green job, as defined by the United States Department of Labor, is a job in business that produces goods or provides services that benefit the environment or conserve natural resources.

¹² The Corporate Average Fuel Economy standards are regulations in the United States, first enacted by Congress in 1975, to improve the average fuel economy of cars and light trucks. The U.S Department of Transportation has delegated the National Highway Traffic Safety Administration as the regulatory agency for the Corporate Average Fuel Economy standards.

¹³ United States Environmental Protection Agency, EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks, August 2012, <https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EZ7C.PDF?Dockey=P100EZ7C.PDF>.

¹⁴ National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks 2018. Available at: <https://www.gpo.gov/fdsys/pkg/FR-2018-08-24/pdf/2018-16820.pdf>.

regarding the preemption of particular state Greenhouse Gas (GHG) Emissions standards or Zero Emissions Vehicle (ZEV) mandates. As such, this document proposes to establish a clean slate with respect to NHTSA's regulations and interpretations concerning preemption under the Energy Policy and Conservation Act (EPCA).¹⁵

State of California

California Air Resources Board

CARB, a part of the California Environmental Protection Agency (CalEPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, CARB conducts research, sets state ambient air quality standards (California Ambient Air Quality Standards [CAAQS]), compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In 2004, the California Air Resources Board (CARB) adopted an Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other toxic air contaminants (Title 13 California Code of Regulations [CCR], Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure generally does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given location with certain exemptions for equipment in which idling is a necessary function such as concrete trucks. While this measure primarily targets diesel particulate matter emissions, it has co-benefits of minimizing GHG emissions from unnecessary truck idling.

In 2008, CARB approved the Truck and Bus regulation to reduce particulate matter and nitrogen oxide emissions from existing diesel vehicles operating in California (13 CCR, Section 2025, subsection (h)). CARB has also promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation, adopted by the CARB on July 26, 2007, aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. Refer to Section IV.B, *Air Quality*, of this Draft EIR for additional details regarding these regulations. While these regulations primarily target reductions in criteria air pollutant emission, they have co-benefits of minimizing GHG emissions due to improved engine efficiencies.

The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

Assembly Bill 1493

California Assembly Bill 1493 enacted on July 22, 2002, required the CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO₂ and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009.

¹⁵ <https://www.federalregister.gov/documents/2021/05/12/2021-08758/corporate-average-fuel-economy-cape-preemption>

Executive Order S-3-05

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

- By 2010, California shall reduce GHG emissions to 2000 levels;
- By 2020, California shall reduce GHG emissions to 1990 levels; and
- By 2050, California shall reduce GHG 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.

Assembly Bill 32 (California Health and Safety Code, Division 25.5 – California Global Warming Solutions Act of 2006)

In 2006, the California State Legislature adopted Assembly Bill (AB) 32 (codified in the California Health and Safety Code [HSC], Division 25.5 – California Global Warming Solutions Act of 2006), which focuses on reducing GHG emissions in California to 1990 levels by 2020. HSC Division 25.5 defines GHGs as CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆ and represents the first enforceable statewide program to limit emissions of these GHGs from all major industries with penalties for noncompliance. The law further requires that reduction measures be technologically feasible and cost effective. Under HSC Division 25.5, CARB has the primary responsibility for reducing GHG emissions. CARB is required to adopt rules and regulations directing state actions that would achieve GHG emissions reductions equivalent to 1990 statewide levels by 2020.

Senate Bill 32 and Assembly Bill 197

In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, and both were signed by Governor Brown. SB 32 and AB 197 amends HSC Division 25.5 and establishes a new climate pollution reduction target of 40 percent below 1990 levels by 2030 and includes provisions to ensure the benefits of state climate policies reach into disadvantaged communities.

Climate Change Scoping Plan (2008)

A specific requirement of AB 32 was to prepare a Climate Change Scoping Plan for achieving the maximum technologically feasible and cost-effective GHG emission reduction by 2020 (Health and Safety Code section 38561 (h)). CARB developed an AB 32 Scoping Plan that contains strategies to achieve the 2020 emissions cap. The initial Scoping Plan was approved in 2008, and contains a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.

As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was originally set at 427 MMTCO₂e using the GWP values from the IPCC SAR. CARB also projected the state's 2020 GHG emissions under no-action-taken (NAT) conditions – that is, emissions that would occur without any plans, policies, or regulations to reduce GHG emissions. CARB originally used an average of the state's GHG emissions from 2002 through 2004 and projected the 2020 levels at approximately 596 MMTCO₂e (using GWP values from the IPCC SAR). Therefore, under the original projections, the state must reduce its 2020 NAT emissions by 28.4 percent in order to meet the 1990 target of 427 MMTCO₂e.

First Update to the Climate Change Scoping Plan (2014)

The First Update to the Scoping Plan was approved by CARB in May 2014 and builds upon the initial Scoping Plan with new strategies and recommendations. In 2014, CARB revised the target using the GWP values from the IPCC AR4 and determined that the 1990 GHG emissions inventory and 2020 GHG emissions limit is 431 MMTCO₂e. CARB also updated the State's 2020 NAT emissions estimate to account for the effect of the 2007–2009 economic recession, new estimates for future fuel and energy demand, and the reductions required by regulation that were recently adopted for motor vehicles and renewable energy. CARB's projected statewide 2020 emissions estimate using the GWP values from the IPCC AR4 is 509.4 MMTCO₂e.

2017 Climate Change Scoping Plan

In response to the 2030 GHG reduction target, CARB adopted the 2017 Climate Change Scoping Plan at a public meeting held in December 2017. The 2017 Scoping Plan outlines the strategies the State will implement to achieve the 2030 GHG reduction target of 40 percent below 1990 levels. The 2017 Scoping Plan also addresses GHG emissions from natural and working lands of California, including the agriculture and forestry sectors. The 2017 Scoping Plan considered the Scoping Plan Scenario and four alternatives for achieving the required GHG reductions but ultimately selected the Scoping Plan Scenario.

CARB states that the Scoping Plan Scenario “is the best choice to achieve the State's climate and clean air goals.”¹⁶ Under the Scoping Plan Scenario, the majority of the reductions would result from the continuation of the Cap-and-Trade regulation. Additional reductions are achieved from electricity sector standards (i.e., utility providers to supply at least 50 percent renewable electricity by 2030), doubling the energy efficiency savings at end uses, additional reductions from the LCFS, implementing the short-lived GHG strategy (e.g., hydrofluorocarbons), and implementing the mobile source strategy and sustainable freight action plan. The alternatives were designed to consider various combinations of these programs, as well as consideration of a carbon tax in the event the Cap-and-Trade regulation is not continued. However, in July 2017, the California Legislature voted to extend the Cap-and-Trade regulation to 2030. Implementing this Scoping Plan will ensure that California's climate actions continue to promote innovation, drive the generation of new jobs, and achieve continued reductions of smog and air toxics. The ambitious approach draws on a decade of successful programs that address the major sources of climate-changing gases in every sector of the economy:

- **More Clean Cars and Trucks:** The plan sets out far-reaching programs to incentivize the sale of millions of zero-emission vehicles, drive the deployment of zero-emission trucks, and shift to a cleaner system of handling freight statewide.
- **Increased Renewable Energy:** California's electric utilities are ahead of schedule meeting the requirement that 33 percent of electricity come from renewable sources by 2020. The Scoping Plan guides utilities to 50 percent renewables, as required under SB 350.
- **Slashing Super-Pollutants:** The plan calls for a significant cut in super-pollutants such as methane and HFC refrigerants, which are responsible for as much as 40 percent of global warming.
- **Cleaner Industry and Electricity:** California's renewed cap-and-trade program extends the declining cap on emissions from utilities and industries and the carbon allowance auctions. The auctions will continue to fund investments in clean energy and efficiency, particularly in disadvantaged communities.
- **Cleaner Fuels:** The Low Carbon Fuel Standard will drive further development of cleaner, renewable transportation fuels to replace fossil fuels.
- **Smart Community Planning:** Local communities will continue developing plans which will further link transportation and housing policies to create sustainable communities.
- **Improved Agriculture and Forests:** The Scoping Plan also outlines innovative programs to account for and reduce emissions from agriculture, as well as forests and other natural lands.

¹⁶ California Air Resources Board, California's 2017 Climate Change Scoping Plan, November 2017, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

The 2017 Scoping Plan also evaluates reductions of smog-causing pollutants through California's climate programs.

SB 32, Pavley. California Global Warming Solutions Act of 2006

- (5) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective greenhouse gas emissions reductions. This bill would require the state board to ensure that statewide greenhouse gas emissions are reduced to 40% below the 1990 level by 2030.
- (2) This bill would become operative only if AB 197 of the 2015–16 Regular Session is enacted and becomes effective on or before January 1, 2017. AB 197 requires that the California Air Resources Board, which directs implementation of emission-reduction programs, should target direct reductions at both stationary and mobile sources. AB 197 of the 2015-2016 Regular Session was approved on September 8, 2016.

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 Order also directs the 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.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard and began implementation on January 1, 2011. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. CARB approved some amendments to the LCFS in December 2011, which were implemented on January 1, 2013. In September 2015, the Board approved the re-adoption of the LCFS, which became effective on January 1, 2016, to address procedural deficiencies in the way the original regulation was adopted. In 2018, the Board approved amendments to the regulation, which included strengthening and smoothing the carbon intensity benchmarks through 2030 in-line with California's 2030 GHG emission reduction target enacted through SB 32, adding new crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector.

The LCFS is designed to encourage the use of cleaner low-carbon transportation fuels in California, encourage the production of those fuels, and therefore, reduce GHG emissions and decrease petroleum dependence in the transportation sector. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume 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 as appropriate. 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 for the low carbon fuel standard.

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 the 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 address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate 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 greenhouse gas 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 greenhouse gas 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 (EIRs) must specifically consider a project's energy use and energy efficiency potential.

Senate Bill 100

Senate Bill 100 (SB 100) requires 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. SB 100 was adopted September 2018.

The interim thresholds from prior Senate Bills and Executive Orders would also remain in effect. These include Senate Bill 1078 (SB 1078), which requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) which changed the target date to 2010. Executive Order S-14-08, which was signed on November 2008 and expanded the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed the CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 375

Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). The CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. The CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by the CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

Senate Bill X7-7

Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition, SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

Assembly Bill 939 and Senate Bill 1374

Assembly Bill 939 (AB 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.

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

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008, and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. CalEEMod modeling defaults to 2008 standards. 2013 Standards were approved and have been effective since July 1, 2014. 2016 Standards were adopted January 1, 2017. 2019 standards were published July 1, 2019 and became effective January 1, 2020. All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards.

Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

Per Section 100 Scope, the 2019 Title 24, Part 6 Building Code now requires healthcare facilities, such as assisted living facilities, hospitals, and nursing homes, to meet documentation requirements of Title 24, Part 1 Chapter 7 – Safety Standards for Health Facilities. A healthcare facility is defined as any building or portion thereof licensed pursuant to California Health and Safety Code Division 2, Chapter 1, Section 1204 or Chapter 2, Section 1250.

Section 120.1 Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times. The 2019 version of the Code also completely revised the minimum ventilation requirements including DVC airflow rates within Section 120.1 Table 120.1-A. Table 120.1-A now includes air classification and recirculation limitations, these are based on either the number of occupants or the CFM/ft² (cubic feet per minute per square foot), whichever is greater.

Section 120.1 Ventilation and Indoor Air Quality also included additions for high-rise residential buildings. Requirements include that mechanical systems must provide air filters that and that air filters must be MERV 13 or use a particle size efficiency rating specified in the Energy Code. Window operation is no longer a method allowed to meet ventilation requirements, continuous operation of central forced air system handlers used in central fan integrated ventilation system is not a permissible method of providing the dwelling unit ventilation airflow, and central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow to each dwelling unit. In addition, requirements for kitchen range hoods were also provided in the updated Section 120.1.

Per Section 120.1(a) healthcare facilities must be ventilated in accordance with Chapter 4 of the California Mechanical Code and are NOT required to meet the ventilations requirements of Title 24, Part 6.

Section 140.4 Space Conditioning Systems included both additions and revisions within the 2019 Code. The changes provided new requirements for cooling tower efficiency, new chilled water-cooling system requirements, as well as new formulas for calculating allowed fan power. Section 140.4(n) also provide a new exception for mechanical system shut-offs for high-rise multifamily dwelling units, while Section 140.4(o) added new requirements for conditioned supply air being delivered to space with mechanical exhaust.

Section 120.6 Covered Processes added information in regards to adiabatic chiller requirements that included that all condenser fans for air-cooled converseness, evaporative-cooled condensers, adiabatic condensers, gas coolers, air or water fluid coolers or cooling towers must be continuously variable speed, with the speed of all fans serving a common condenser high side controlled in unison .Further, the mid-condensing setpoint must be 70 degrees Fahrenheit for all of the above mentioned systems.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regard to sunlight provided through skylights and overhangs.

Section 130.2 Outdoor Lighting Controls and Equipment added automatic scheduling controls which included that outdoor lighting power must be reduced by 50 to 90 percent, turn the lighting off during unoccupied times and have at least two scheduling options for each luminaire independent from each other and with a 2-hour override function. Furthermore, motion sensing controls must have the ability to reduce power within 15 minutes of area being vacant and be able to come back on again when occupied. An exception allows for lighting subject to a health or life safety statute, ordinance, or regulation may have a minimum time-out period

longer than 15 minutes or a minimum dimming level above 50% when necessary to comply with the applicable law.

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

On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011.

2016 CALGreen Code: The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions. During the 2016-2017 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2015 Triennial Code Adoption Cycle.

HCD also increased the required construction waste reduction from 50 percent to 65 percent of the total building site waste. This increase aids in meeting CalRecycle's statewide solid waste recycling goal of 75 percent for 2020 as stated in Chapter 476, Statutes of 2011 (AB 341). HCD adopted new regulations requiring recycling areas for multifamily projects of five or more dwelling units. This regulation requires developers to provide readily accessible areas adequate in size to accommodate containers for depositing, storage and collection of non-hazardous materials (including organic waste) for recycling. This requirement assists businesses that were required as of April 1, 2016, to meet the requirements of Chapter 727, Statutes of 2014 (AB 1826).

HCD adopted new regulations to require information on photovoltaic systems and electric vehicle chargers to be included in operation and maintenance manuals. Currently, CALGreen section 4.410.1 Item 2(a) requires operation and maintenance instructions for equipment and appliances. Photovoltaic systems and electric vehicle chargers are systems that play an important role in many households in California, and their importance is increasing every day. HCD incorporated these two terms in the existing language in order to provide clarity to code users as to additional systems requiring operation and maintenance instructions.

HCD updated the reference to Clean Air Standards of the United States Environmental Protection Agency applicable to woodstoves and pellet stoves. HCD also adopted a new requirement for woodstoves and pellet stoves to have a permanent label indicating they are certified to meet the emission limits. This requirement provides clarity to the code user and is consistent with the United States Environmental Protection Agency's New Source Performance Standards. HCD updated the list of standards which can be used for verification of compliance for exterior grade composite wood products. This list now includes four standards from the Canadian Standards Association (CSA): CSA O121, CSA O151, CSA O153 and CSA O325. HCD updated heating and air-conditioning system design references to the ANSI/ACCA 2 Manual J, ANSI/ACCA 1 Manual D, and ANSI/ACCA 3 Manual S to the most recent versions approved by ANSI. HCD adopted a new elective measure for hot water recirculation systems for water conservation. The United States Department of Energy estimates that 3,600 to 12,000 gallons of water per year can be saved by the typical household (with four points of hot water use) if a hot water recirculation system is installed.

2019 CALGreen Code: During the 2019-2020 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle.

HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regard to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regard to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regard to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regard to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Executive Order B-30-15

On April 29, 2015, Governor Brown issued Executive Order B-30-15. Therein, the Governor directed the following:

- Established a new interim statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030.
- Ordered all state agencies with jurisdiction over sources of GHG emissions to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 reduction targets.
- Directed CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

Executive Order B-29-15

Executive Order B-29-15, mandates a statewide 25 percent reduction in potable water usage. EO B-29-15 signed into law on April 1, 2015.

Executive Order B-37-16

Executive Order B-37-16, continuing the State's adopted water reductions, was signed into law on May 9, 2016. The water reductions build off the mandatory 25 percent reduction called for in EO B-29-15.

Executive Order N-79-20

Executive Order N-79-20 was signed into law on September 23, 2020 and mandates 100 percent of in-state sales of new passenger cars and trucks be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the state be zero-emission vehicles by 2045 for all operations where feasible and by 2035 for

drayage trucks; and to transition to 100 percent zero-emission off-road vehicles and equipment by 2035 where feasible.

SBX1 2

Signed into law in April 2011, SBX1 2, requires one-third of the State's electricity to come from renewable sources. The legislation increases California's current 20 percent renewables portfolio standard target in 2010 to a 33 percent renewables portfolio standard by December 31, 2020.

Senate Bill 350

Signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

Energy Sector and CEQA Guidelines Appendix F

The CEC first adopted Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR, Title 24, Part 6) in 1978 in response to a legislative mandate to reduce energy consumption in the state. Although not originally intended to reduce GHG emissions, increased energy efficiency and reduced consumption of electricity, natural gas, and other fuels would result in fewer GHG emissions from residential and nonresidential buildings subject to the standard. The standards are updated periodically (typically every three years) to allow for the consideration and inclusion of new energy efficiency technologies and methods. The 2016 update to the Energy Efficiency Standards for Residential and Nonresidential Buildings focuses on several key areas to improve the energy efficiency of renovations and addition to existing buildings as well as newly constructed buildings and renovations and additions to existing buildings. The major efficiency improvements to the residential Standards involve improvements for attics, walls, water heating, and lighting, whereas the major efficiency improvements to the nonresidential Standards include alignment with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 90.1-2013 national standards. Furthermore, the 2016 update required that enforcement agencies determine compliance with CCR, Title 24, Part 6 before issuing building permits for any construction.¹⁷

Part 11 of the Title 24 Building Energy Efficiency Standards is referred to as the California Green Building Standards (CALGreen) Code. The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality."¹⁸ As of January 1, 2011, the CALGreen Code is mandatory for all new buildings constructed in the state. The CALGreen Code establishes mandatory measures for new residential and non-residential buildings. Such mandatory measures include energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2019 to include new mandatory measures for residential and nonresidential uses; the new measures took effect on January 1, 2020.

¹⁷ California Energy Commission, 2016 Building Energy Efficiency Standards, June 2015, <http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037-CMF.pdf>

¹⁸ California Building Standards Commission, 2010 California Green Building Standards Code, (2010).

Regional – South Coast Air Quality Management District

The project is within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

SCAQMD Regulation XXVII, Climate Change

SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of threshold approaches but did not recommend one approach (2008). The ARB recommended approaches for setting interim significance thresholds (California Air Resources Board 2008b), in which a draft industrial project threshold suggests that non-transportation related emissions under 7,000 MTCO₂e per year would be less than significant; however, the ARB has not approved those thresholds and has not published anything since then. The SCAQMD is in the process of developing thresholds, as discussed below.

SCAQMD Threshold Development

On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD permit threshold). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the proposed project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration (“SCAQMD draft local agency threshold”); however, the SCAQMD Board has not approved the thresholds as of the date of the Notice of Preparation. The current draft thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project’s construction emissions are averaged over 30 years and are added to a project’s operational emissions. If a project’s emissions are under one of the following screening thresholds, then the project is less than significant:
 - All land use types: 3,000 MTCO₂e per year
 - Based on land use type: residential: 3,500 MTCO₂e per year; commercial: 1,400 MTCO₂e per year; or mixed use: 3,000 MTCO₂e per year.

- Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 MTCO₂e per year.
- Tier 4 has the following options:
 - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
 - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
 - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e/SP/year for projects and 6.6 MTCO₂e/SP/year for plans;
 - Option 3, 2035 target: 3.0 MTCO₂e/SP/year for projects and 4.1 MTCO₂e/SP/year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures. A GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that staff estimates that these GHG emissions would account for slightly less than one percent of future 2050 statewide GHG emissions target (85 MMTCO₂e/year). In addition, these small projects may be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory. Finally, these small sources are already subject to BACT for criteria pollutants and are more likely to be single-permit facilities, so they are more likely to have few opportunities readily available to reduce GHG emissions from other parts of their facility.

SCAQMD Working Group

Since neither the CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. 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 provides a quantitative annual threshold of 10,000 MTCO₂e for industrial uses.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

SCAQMD Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2700 establishes definitions for the various terms used in Regulation XXVII – Global Climate Change. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan to reduce GHG emissions. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

SCAQMD Rule 2702

The SCAQMD adopted Rule 2702 on February 6, 2009, which establishes a voluntary air quality investment program from which SCAQMD can collect funds from parties that desire certified GHG emission reductions, pool those funds, and use them to purchase or fund GHG emission reduction projects within two years, unless extended by the Governing Board. Priority will be given to projects that result in co-benefit emission reductions of GHG emissions and criteria or toxic air pollutants within environmental justice areas. Further, this voluntary program may compete with the cap-and-trade program identified for implementation in CARB's Scoping Plan, or a federal cap and trade program.

SCAQMD Rule 3002

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of CO_{2e} are required to apply for a Title V permit by July 1, 2011. A Title V permit is for facilities that are considered major sources of emissions.

Local – City of Perris

The City of Perris Climate Action Plan (CAP) was completed in February 2016. The CAP was developed to address global climate change through the reduction of harmful greenhouse gas emissions at the community level and as part of California's mandated statewide GHG reduction goal (AB 32). Through the CAP, the city has developed multiple sustainable strategies to directly benefit the community by decreasing carbon emissions while adapting to a changing climate. The programs and actions provided in the CAP were developed to help the city grow healthily, resourcefully, and sustainably.

SIGNIFICANCE THRESHOLDS

Appendix G of State CEQA Guidelines

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;
- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions¹⁹.

Thresholds of Significance for this Project

To determine whether the project's GHG emissions are significant, this analysis uses the SCAQMD screening threshold of 10,000 MTCO_{2e} per year for industrial uses.

¹⁹ The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

METHODOLOGY

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions and the project impacts.

CalEEMod Version 2020.4.0 was used to calculate the GHG emissions from the proposed project. The CalEEMod Annual Output for year 2023 is available in Appendix C. Each source of GHG emissions is described in greater detail below.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. No changes were made to the default area source emissions.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the TIA into the CalEEMod Model. The program then applies the emission factors for each trip which is provided by the EMFAC2017 model to determine the vehicular traffic pollutant emissions. See Section 2 for details.

Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. AB 341 requires that 75 percent of waste be diverted from landfills by 2020, reductions for this are shown in the mitigated CalEEMod output values. No other changes were made to the default waste parameters.

Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. No changes were made to the default water usage parameters.

Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30-year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod and in the manner detailed above in Section 2.

PROJECT GREENHOUSE GAS EMISSIONS

The GHG emissions have been calculated based on the parameters described above. A summary of the results is shown below in Table 21 and the CalEEMod Model run for the proposed project is provided in Appendix C. Table 21 shows that the total for the proposed project's emissions (without credit for any reductions from

sustainable design and/or regulatory requirements) would be 2,406.11 MTCO₂e per year. According to the thresholds of significance established above, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations of the proposed project would exceed the SCAQMD threshold of 10,000 MTCO₂e per year for industrial uses. Therefore, operation of the proposed project would not create a significant cumulative impact to global climate change. No mitigation is required.

**Table 21
Project-Related Greenhouse Gas Emissions**

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO ₂	CO ₂	CH ₄	N ₂ O	CO ₂ e
Area Sources ¹	0.00	0.01	0.01	0.00	0.00	0.01
Energy Usage ²	0.00	136.01	136.01	0.01	0.00	136.74
Mobile Sources ³	0.00	1,852.33	1,852.33	0.05	0.18	1,907.30
Waste ⁴	48.56	0.00	48.56	2.87	0.00	120.31
Water ⁵	18.67	135.91	154.58	1.93	0.05	216.72
Construction ⁶	0.00	24.58	24.58	0.00	0.00	25.03
Total Emissions	67.24	2,148.84	2,216.08	4.86	0.23	2,406.11
SCAQMD Draft Screening Threshold for Industrial Land Uses						10,000
Exceeds Threshold?						No

Notes:

Source: CalEEMod Version 2020.4.0 for Opening Year 2023.

- (1) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.
- (2) Energy usage consist of GHG emissions from electricity and natural gas usage.
- (3) Mobile sources consist of GHG emissions from vehicles.
- (4) Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.
- (5) Water includes GHG emissions from electricity used for transport of water and processing of wastewater.
- (6) Construction GHG emissions CO₂e based on a 30 year amortization rate.

CONSISTENCY WITH APPLICABLE GREENHOUSE GAS REDUCTION PLANS AND POLICIES

The proposed project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. As stated previously, the City of Perris has a Climate Action Plan; therefore, the project and its GHG emissions have been compared to the goals of the City of Perris CAP.

SB-32

As stated previously, the SCAQMD's tier 3 thresholds used Executive Order S-3-05 goal as the basis for deriving the screening level. The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, 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.

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 was phased in starting in 2012. Therefore, as the project's emissions meet the SCAQMD threshold of 10,000 MTCO_{2e} per year for all land use types (in compliance with Executive Order S-3-05), the project's emissions also comply with the goals of AB 32. Additionally, as the project meets the current interim emissions targets/thresholds established by the SCAQMD, the project would also be on track to meet the reduction target of 40 percent below 1990 levels by 2030 mandated by SB-32. Furthermore, the majority of the post 2020 reductions in GHG emissions are addressed via regulatory requirements at the State level and the project will be required to comply with these regulations as they come into effect.

At a level of 2,406.11 MTCO_{2e} per year, the project's GHG emissions do not exceed the SCAQMD threshold of 10,000 MTCO_{2e} per year for industrial uses and would be in compliance with the reduction goals of the City of Perris' CAP, AB-32 and SB-32. Furthermore, the project will comply with applicable Green Building Standards and City of Perris' policies regarding sustainability (as dictated by the City's General Plan and CAP). Impacts are considered to be less than significant.

CUMULATIVE GREENHOUSE GAS IMPACTS

Although the project is expected to emit GHGs, the emission of GHGs by a single project into the atmosphere is not itself necessarily an adverse environmental effect. Rather, it is the increased accumulation of GHG from more than one project and many sources in the atmosphere that may result in global climate change. Therefore, in the case of global climate change, the proximity of the project to other GHG emission generating activities is not directly relevant to the determination of a cumulative impact because climate change is a global condition. According to CAPCOA, "GHG impacts are exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective."²⁰ The resultant consequences of that climate change can cause adverse environmental effects. A project's GHG emissions typically would be very small in comparison to state or global GHG emissions and, consequently, they would, in isolation, have no significant direct impact on climate change.

The state has mandated a goal of reducing statewide emissions to 1990 levels by 2020, even though statewide population and commerce are predicted to continue to expand. In order to achieve this goal, CARB is in the process of establishing and implementing regulations to reduce statewide GHG emissions. Consistent with

²⁰ Source: California Air Pollution Control Officers Association, CEQA & Climate change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act, (2008).

CEQA Guidelines Section 15064h(3),²¹ the City, as lead agency, has determined that the project's contribution to cumulative GHG emissions and global climate change would be less than significant if the project is consistent with the applicable regulatory plans and policies to reduce GHG emissions.

As discussed in the Consistency With Applicable Greenhouse Gas Reduction Plans and Policies section above, the project is consistent with the goals and objectives of the City of Perris CAP.

Thus, given the project's consistency with the City's CAP and SCAQMD's 10,000 MTCO₂e per year threshold for industrial uses, the project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of GHGs. Given this consistency, it is concluded that the project's incremental contribution to greenhouse gas emissions and their effects on climate change would not be cumulatively considerable.

²¹ The State CEQA Guidelines were amended in response to SB 97. In particular, the State CEQA Guidelines were amended to specify that compliance with a GHG emissions reduction program renders a cumulative impact insignificant. Per State CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project will comply with an approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area of the project. To qualify, such a plan or program must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. Examples of such programs include a "water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plan, [and] plans or regulations for the reduction of greenhouse gas emissions."

5. ENERGY ANALYSIS

EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the project area and region.

Overview

California's estimated annual energy use as of 2020 included:

- Approximately 272,576 gigawatt hours of electricity;²²
- Approximately 2,074,302 million cubic feet of natural gas per year;²³ and
- Approximately 23.2 billion gallons of transportation fuel (for the year 2015).²⁴

As of 2019, the year of most recent data currently available by the United States Energy Information Administration (EIA), energy use in California by demand sector was:

- Approximately 39.3 percent transportation;
- Approximately 23.2 percent industrial;
- Approximately 18.7 percent residential; and
- Approximately 18.9 percent commercial.²⁵

California's electricity in-state generation system generates approximately 190,913 gigawatt-hours each year. In 2020, California produced approximately 70 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 15 percent) and the U.S. Southwest (approximately 15 percent). Natural gas is the main source for electricity generation at approximately 48.34 percent of the total in-state electric generation system power as shown in Table 22.

A summary of and context for energy consumption and energy demands within the State is presented in "U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts" excerpted below:

- California was the seventh-largest producer of crude oil among the 50 states in 2018, and, as of January 2019, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel among the 50 states and accounted for one-fifth of the nation's jet fuel consumption in 2018.
- California's total energy consumption is the second-highest in the nation, but, in 2018, the State's per capita energy consumption ranked the fourth-lowest, due in part to its mild climate and its energy efficiency programs.
- In 2018, California ranked first in the nation as a producer of electricity from solar, geothermal, and biomass resources and fourth in the nation in conventional hydroelectric power generation.

²² California Energy Commission. Energy Almanac. Total Electric Generation. [Online] 2021.

<https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation>.

²³ Natural Gas Consumption by End Use. U.S. Energy Information Administration. [Online] 2021.

https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_SCA_a.htm.

²⁴ California Energy Commission. Revised Transportation Energy Demand Forecast 2018-2030. [Online] 2021.

<https://www.energy.ca.gov/data-reports/planning-and-forecasting>

²⁵ U.S. Energy Information Administration. California Energy Consumption by End-Use Sector.

California State Profile and Energy Estimates.[Online] January 16, 2020 <https://www.eia.gov/state/?sid=CA#tabs-2>

- In 2018, large- and small-scale solar PV and solar thermal installations provided 19% of California's net electricity generation.²⁶

As indicated above, California is one of the nation's leading energy-producing states, and California per capita energy use is among the nation's most efficient. Given the nature of the proposed project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the project—namely, electricity and natural gas, and transportation fuel for vehicle trips associated with the proposed project.

Electricity

Electricity would be provided to the project by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons, within a service area encompassing approximately 50,000 square miles.²⁷ SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers.²⁸

Table 23 identifies SCE's specific proportional shares of electricity sources in 2020. As shown in Table 23, the 2020 SCE Power Mix has renewable energy at 30.9 percent of the overall energy resources, of which biomass and waste is at 0.1 percent, geothermal is at 5.5 percent, eligible hydroelectric is at 0.8 percent, solar energy is at 15.1 percent, and wind power is at 9.4 percent; other energy sources include large hydroelectric at 3.3 percent, natural gas at 15.2 percent, nuclear at 8.4 percent, other at 0.3 percent, and unspecified sources at 42 percent.

Natural Gas

Natural gas would be provided to the project by Southern California Gas (SoCalGas). The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

The CPUC regulates natural gas utility service for approximately 11 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller investor-owned natural gas utilities. The CPUC also regulates independent storage operators Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

The vast majority of California's natural gas customers are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

The PUC regulates the California utilities' natural gas rates and natural gas services, including in-state transportation over the utilities' transmission and distribution pipeline systems, storage, procurement, metering and billing.

Most of the natural gas used in California comes from out-of-state natural gas basins. In 2017, for example, California utility customers received 38% of their natural gas supply from basins located in the U.S. Southwest, 27% from Canada, 27% from the U.S. Rocky Mountain area, and 8% from production located in California.²⁹

²⁶ State Profile and Energy Estimates. Independent Statistics and Analysis. [Online] [Cited: January 16, 2020]. <http://www.eia.gov/state/?sid=CA#tabs2>.

²⁷ <https://www.sce.com/about-us/who-we-are/leadership/our-service-territory>

²⁸ California Energy Commission. Utility Energy Supply plans from 2015. https://www.energy.ca.gov/almanac/electricity_data/supply_forms.html

²⁹ California Public Utilities Commission. Natural Gas and California. http://www.cpuc.ca.gov/natural_gas/

Transportation Energy Resources

The project would attract additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the project patrons and employees via commercial outlets.

The most recent data available shows the transportation sector emits 40 percent of the total greenhouse gases in the state and about 84 percent of smog-forming oxides of nitrogen (NOx).^{30,31} About 28 percent of total United States energy consumption in 2019 was for transporting people and goods from one place to another. In 2019, petroleum comprised about 91 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels.³² In 2020, about 123.49 billion gallons (or about 2.94 billion barrels) of finished motor gasoline were consumed in the United States, an average of about 337 million gallons (or about 8.03 million barrels) per day.³³

REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the PUC and the California Energy Commissions (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

Federal Regulations

Corporate Average Fuel Economy (CAFE) Standards

First established by the U.S. Congress in 1975, the Corporate Average Fuel Economy (CAFE) standards reduce energy consumption by increasing the fuel economy of cars and light trucks. The National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA) jointly administer the CAFE standards. The U.S. Congress has specified that CAFE standards must be set at the “maximum feasible level” with consideration given for: (1) technological feasibility; (2) economic practicality; (3) effect of other standards on fuel economy; and (4) need for the nation to conserve energy.³⁴

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO₂ standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO₂ standards for model year 2020 are 43.7 mpg and 204 grams of CO₂ per mile for passenger cars and 31.3 mpg and 284 grams of CO₂ per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012.³⁵

³⁰ CARB. California Greenhouse Gas Emissions Inventory – 2020 Edition. <https://www.arb.ca.gov/cc/inventory/data/data.htm>

³¹ CARB. 2016 SIP Emission Projection Data. https://www.arb.ca.gov/app/emsmv/2017/emseic1_query.php?F_DIV=-4&F_YR=2012&F_SEASON=A&SP=SIP105ADJ&F_AREA=CA

³² US Energy Information Administration. Use of Energy in the United States Explained: Energy Use for Transportation. https://www.eia.gov/energyexplained/?page=us_energy_transportation

³³ <https://www.eia.gov/tools/faqs/faq.php?id=23&t=10>

³⁴ <https://www.nhtsa.gov/lawsregulations/corporate-average-fuel-economy>.

³⁵ National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks 2018. Available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/safer-affordable-fuel-efficient-safe-vehicles-final-rule>.

Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

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

The Transportation Equity Act of the 21st Century (TEA-21)

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

State Regulations

Integrated Energy Policy Report (IEPR)

Senate Bill 1389 requires the California Energy Commission (CEC) to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the State's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety. The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2019 Integrated Energy Policy Report (2019 IEPR) was adopted February 20, 2020, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2019 IEPR focuses on a variety of topics such as decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecast, and the California Energy Demand Forecast.³⁶

State of California Energy Plan

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access.

³⁶ California Energy Commission. Final 2019 Integrated Energy Policy Report. February 20, 2020. <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2019-integrated-energy-policy-report>

California Building Standards Code (Title 24)

The California Building Standards Code Title 24 was previously discussed in Section 4 of this report.

California Building Energy Efficiency Standards (Title 24, Part 6)

The California Building Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations, Title 24, Part 6) were adopted to ensure that building construction and system design and installation achieve energy efficiency and preserve outdoor and indoor environmental quality. The current California Building Energy Efficiency Standards (Title 24 standards) are the 2019 Title 24 standards, which became effective on January 1, 2020. The 2019 Title 24 standards include efficiency improvements to the lighting and efficiency improvements to the non-residential standards include alignment with the American Society of Heating and Air-Conditioning Engineers. For example, window operation is no longer a method allowed to meet ventilation requirements, continuous operation of central forced air system handlers used in central fan integrated ventilation system is not a permissible method of providing the dwelling unit ventilation airflow, and central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow to each dwelling unit. In addition, requirements for kitchen range hoods were also provided in the updated Section 120.1. Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regard to sunlight provided through skylights and overhangs.

All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

California Building Energy Efficiency Standards (Title 24, Part 11)

The 2019 California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, went into effect on January 1, 2020. The 2019 CALGreen Code includes mandatory measures for non-residential development related to site development; energy efficiency; water efficiency and conservation; material conservation and resource efficiency; and environmental quality.

As previously discussed in Section 4 of this report, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle. HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction

runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regard to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regard to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELo), whichever is more stringent. Some updates were also made in regard to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regard to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Senate Bill 100

Senate Bill 100 (SB 100) requires 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. SB 100 was adopted September 2018.

The interim thresholds from prior Senate Bills and Executive Orders would also remain in effect. These include Senate Bill 1078 (SB 1078), which requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) which changed the target date to 2010. Executive Order S-14-08, which was signed on November 2008 and expanded the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed the CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 350

As previously discussed in Section 4 of this report, Senate Bill 350 (SB 350) was signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

Assembly Bill 32

As discussed in Section 4 of this report, in 2006 the California State Legislature adopted Assembly Bill 32 (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 best management practices that are technologically feasible and cost effective. Please see Section 4 for further detail on AB 32.

Assembly Bill 1493/Pavley Regulations

As discussed in Section 4 of this report, California Assembly Bill 1493 enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a “waiver” request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO₂ and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the “waiver” request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State’s request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009.

Executive Order S-1-07/Low Carbon Fuel Standard

As discussed in Section 4 of this report, 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 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.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard 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 each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are “back-loaded”, with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today’s fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume 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 as appropriate. 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 for the low carbon fuel standard.

California Air Resources Board

CARB’s Advanced Clean Cars Program

Closely associated with the Pavley regulations, the Advanced Clean Cars emissions control program was approved by CARB in 2012. The program combines the control of smog, soot, and GHGs with requirements for greater numbers of zero-emission vehicles for model years 2015–2025.¹⁵ The components of the

Advanced Clean Cars program include the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.³⁷

Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling

The Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling (Title 13, California Code of Regulations, Division 3, Chapter 10, Section 2435) was adopted to reduce public exposure to diesel particulate matter and other air contaminants by limiting the idling of diesel-fueled commercial motor vehicles. This section applies to diesel-fueled commercial motor vehicles with gross vehicular weight ratings of greater than 10,000 pounds that are or must be licensed for operation on highways. Reducing idling of diesel-fueled commercial motor vehicles reduces the amount of petroleum-based fuel used by the vehicle.

Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles

The Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles (Title 13, California Code of Regulations, Division 3, Chapter 1, Section 2025) was adopted to reduce emissions of diesel particulate matter, oxides of nitrogen (NOX) and other criteria pollutants from in-use diesel-fueled vehicles. This regulation is phased, with full implementation by 2023. The regulation aims to reduce emissions by requiring the installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. The newer emission-controlled models would use petroleum-based fuel in a more efficient manner.

Sustainable Communities Strategy

The Sustainable Communities and Climate Protection Act of 2008, or Senate Bill 375 (SB 375), coordinates land use planning, regional transportation plans, and funding priorities to help California meet the GHG reduction mandates established in AB 32.

As previously stated in Section 4 of this report, Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

³⁷ California Air Resources Board, California's Advanced Clean Cars Program, January 18, 2017. www.arb.ca.gov/msprog/acc/acc.htm.

PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

Evaluation Criteria

In compliance with Appendix G of the State CEQA Guidelines, this report analyzes the project's anticipated energy use to determine if the project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

In addition, Appendix F of the State CEQA Guidelines states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and
- Increasing reliance on renewable energy sources.

Methodology

Information from the CalEEMod 2020.4.0 Daily and Annual Outputs contained in Appendix B and D, utilized for air quality and greenhouse gas analyses in Sections 2 and 4 of this report, were also utilized for this analysis. The CalEEMod outputs detail project related construction equipment, transportation energy demands, and facility energy demands.

Construction Energy Demands

The construction schedule is anticipated to occur no sooner than the beginning of November 2022, last until early August 2023 and be completed in one phase. Staging of construction vehicles and equipment will occur on-site. The approximately nine-month schedule is relatively short and the project site is approximately 12.59 acres.

Construction Equipment Electricity Usage Estimates

As stated previously, Electrical service will be provided by Southern California Edison. The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed project. Based on the 2017 National Construction Estimator, Richard Pray (2017)³⁸, the typical power cost per 1,000 square feet of building construction per month is estimated to be \$2.32. The project plans to develop the site with a 254,511 square foot warehouse. Based on Table 24, the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately \$5,314.19. As shown in Table 15, the total electricity usage from project construction related activities is estimated to be approximately 40,878 kWh.³⁹

Construction Equipment Fuel Estimates

Fuel consumed by construction equipment would be the primary energy resource expended over the course of project construction. Fuel consumed by construction equipment was evaluated with the following assumptions:

³⁸ Pray, Richard. 2017 National Construction Estimator. Carlsbad : Craftsman Book Company, 2017.

³⁹ Assumes the project will be under the GS-1 General Service rate under SCE. <https://www.sce.com/regulatory/tariff-books/rates-pricing-choices>

- Construction schedule of 9 months
- All construction equipment was assumed to run on diesel fuel
- Typical daily use of 8 hours, with some equipment operating from ~6-7 hours
- Aggregate fuel consumption rate for all equipment was estimated at 18.5 hp-hr/gallon (from CARB's 2017 Emissions Factors Tables and fuel consumption rate factors as shown in Table D-21 of the Moyer Guidelines: (https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf).
- Diesel fuel would be the responsibility of the equipment operators/contractors and would be sources within the region.
- Project construction represents a "single-event" for diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources during long term operation.

Using the CalEEMod data input for the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), the project's construction phase would consume electricity and fossil fuels as a single energy demand, that is, once construction is completed their use would cease. CARB's 2017 Emissions Factors Tables show that on average, aggregate fuel consumption (gasoline and diesel fuel) would be approximately 18.5 hp-hr-gal. Table 25 shows the results of the analysis of construction equipment.

As presented in Table 25, project construction activities would consume an estimated 39,984 gallons of diesel fuel. As stated previously, project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

Construction Worker Fuel Estimates

It is assumed that construction worker trips are from light duty autos (LDA), light duty truck 1 (LDT1), and light duty truck 2 (LDT2) at a mix of 50 percent/25 percent/25 percent, respectively, along area roadways.⁴⁰ With respect to estimated VMT, the construction worker trips would generate an estimated 564,848 VMT. Data regarding project related construction worker trips were based on CalEEMod 2020.4.0 model defaults.

Vehicle fuel efficiencies for construction workers were estimated in the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) using information generated using CARB's 2021 EMFAC model (see Appendix D for details). An aggregate fuel efficiency of 26.38 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 26 shows that an estimated 21,412 gallons of fuel would be consumed for construction worker trips.

Construction Vendor/Hauling Fuel Estimates

Tables 27 and 28 show the estimated fuel consumption for vendor and hauling during building construction and architectural coating. With respect to estimated VMT, the vendor and hauling trips would generate an estimated 163,405 VMT. Data regarding project related construction worker trips were based on CalEEMod 2020.4.0 model defaults.

For the architectural coatings it is assumed that the contractors would be responsible for bringing coatings and equipment with them in their light duty vehicles. Therefore, vendors delivering construction material or hauling debris from the site during grading would use medium to heavy duty vehicles with an average fuel consumption of 7.59 mpg for medium heavy-duty trucks and 5.87 for heavy heavy-duty trucks (see Appendix D for details).⁴¹ Tables 27 and 28 show that an estimated 25,719 gallons of fuel would be consumed for vendor and hauling trips.

⁴⁰ CalEEMod User's Guide (May 2021) states that the CalEEMod default fleet mix for worker trips includes light duty autos and light duty trucks, LDA, LDT1, LDT2, at a mix of 50%/25%/25%, respectively.

⁴¹ CalEEMod User's Guide (May 2021) states that the CalEEMod default fleet mix for vendor trips includes medium-heavy duty and heavy-heavy duty trucks, MHDT and HHDT, at a mix of 50%/50%.

Construction Energy Efficiency/Conservation Measures

Construction equipment used over the approximately nine-month construction phase would conform to CARB regulations and California emissions standards and is evidence of related fuel efficiencies. There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with these measures would result in a more efficient use of construction-related energy and would minimize or eliminate wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additionally, as required by California Code of Regulations Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby minimizing or eliminating unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Enforcement of idling limitations is realized through periodic site inspections conducted by County building officials, and/or in response to citizen complaints.

Operational Energy Demands

Energy consumption in support of or related to project operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

Transportation Fuel Consumption

Using the CalEEMod output from the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), it is assumed that an average trip for autos and light trucks was assumed to be 16.6 miles and 3- 4-axle trucks were assumed to travel an average of 40 miles.⁴² As the project includes the development of the site with warehouse uses; therefore, in order to present a worst-case scenario, it was assumed that vehicles would operate 365 days per year. Table 29 shows the estimated annual fuel consumption for all classes of vehicles from autos to heavy-heavy trucks.⁴³

The proposed project would generate 461 trips per day. The vehicle fleet mix was used from the CalEEMod output. Table 29 shows that an estimated 324,626 gallons of fuel would be consumed per year for the operation of the proposed project.

Trip generation and VMT generated by the proposed project are consistent with other similar industrial uses of similar scale and configuration as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Edition, 2020). That is, the proposed project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption. Furthermore, the state of California consumed approximately 4.2

⁴² CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 16.6 miles; 6.9 miles for H-O (home-other) or C-NW (commercial-nonwork) (with truck trips changed to 40 miles per SCAQMD recommendations).

⁴³ Average fuel economy based on aggregate mileage calculated in EMFAC 2021 for opening year (2023). See Appendix C for EMFAC output.

billion gallons of diesel and 15.1 billion gallons of gasoline in 2015.^{44,45} Therefore, the increase in fuel consumption from the proposed project is insignificant in comparison to the State's demand. Therefore, project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

Facility Energy Demands (Electricity and Natural Gas)

Building operation and site maintenance (including landscape maintenance) would result in the consumption of electricity (provided by Southern California Edison) and natural gas (provided by Southern California Gas Company). The annual natural gas and electricity demands were provided per the CalEEMod output from the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) and are provided in Table 30.

As shown in Table 30, the estimated electricity demand for the proposed project is approximately 613,006 kWh per year. In 2020, the non-residential sector of the County of Riverside consumed approximately 8,015 million kWh of electricity.⁴⁶ In addition, the estimated natural gas consumption for the proposed project is approximately 511,567 kBtu per year. In 2020, the non-residential sector of the County of Riverside consumed approximately 135 million therms of gas.⁴⁷ Therefore, the increase in both electricity and natural gas demand from the proposed project is insignificant compared to the County's 2020 non-residential sector demand.

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting. Non-building energy use, or "plug-in" energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

Furthermore, the proposed project energy demands in total would be comparable to other non-residential projects of similar scale and configuration. Therefore, the project facilities' energy demands and energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

RENEWABLE ENERGY AND ENERGY EFFICIENCY PLAN CONSISTENCY

Regarding federal transportation regulations, the project site is located in an already developed area. Access to/from the project site is from existing roads. These roads are already in place so the project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be proposed pursuant to the ISTEA because SCAG is not planning for intermodal facilities in the project area.

Regarding the State's Energy Plan and compliance with Title 24 CCR energy efficiency standards, the applicant is required to comply with the California Green Building Standard Code requirements for energy efficient buildings and appliances as well as utility energy efficiency programs implemented by Southern California Edison and Southern California Gas Company.

Regarding Pavley (AB 1493) regulations, an individual project does not have the ability to comply or conflict with these regulations because they are intended for agencies and their adoption of procedures and protocols for reporting and certifying GHG emission reductions from mobile sources.

Regarding the State's Renewable Energy Portfolio Standards, the project would be required to meet or exceed the energy standards established in the California Green Building Standards Code, Title 24, Part 11

⁴⁴ <https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-gasoline-data-facts-and-statistics>

⁴⁵ <https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/diesel-fuel-data-facts-and-statistics>

⁴⁶ California Energy Commission, Electricity Consumption by County. <https://ecdms.energy.ca.gov/elecbycounty.aspx>

⁴⁷ California Energy Commission, Gas Consumption by County. <http://ecdms.energy.ca.gov/gasbycounty.aspx>

(CALGreen). CALGreen Standards require that new buildings reduce water consumption, employ building commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials.

As shown in Section 4 above, the proposed project would be consistent with the applicable strategies of the City of Perris CAP.

CONCLUSIONS

As supported by the preceding analyses, project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. The proposed project does not include any unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities and is industrial project that is not proposing any additional features that would require a larger energy demand than other industrial projects of similar scale and configuration. The energy demands of the project are anticipated to be accommodated within the context of available resources and energy delivery systems. The project would therefore not cause or result in the need for additional energy producing or transmission facilities. The project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservation goals within the State of California. Notwithstanding, the project proposes industrial warehouse uses and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

Table 22
Total Electricity System Power (California 2020)

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total Imports (GWh)	Percent of Imports	Total California Energy Mix (GWh)	Total California Power Mix
Coal	317	0.17%	194	6,963	7,157	8.76%	7,474	2.74%
Natural Gas	92,298	48.35%	70	8,654	8,724	10.68%	101,022	37.06%
Nuclear	16,280	8.53%	672	8,481	9,154	11.21%	25,434	9.33%
Oil	30	0.02%	-	-	0	0.00%	30	0.01%
Other (Petroleum Coke/Waste Heat)	384	0.20%	125	9	134	0.16%	518	0.19%
Large Hydro	17,938	9.40%	14,078	1,259	15,337	18.78%	33,275	12.21%
Unspecified Sources of Power	-	0.00%	12,870	1,745	14,615	17.90%	14,615	5.36%
Renewables	63,665	33.35%	13,184	13,359	26,543	32.50%	90,208	33.09%
Biomass	5,680	2.97%	975	25	1,000	1.22%	6,679	2.45%
Geothermal	11,345	5.94%	166	1,825	1,991	2.44%	13,336	4.89%
Small Hydro	3,476	1.82%	320	2	322	0.39%	3,798	1.39%
Solar	29,456	15.43%	284	6,312	6,596	8.08%	36,052	13.23%
Wind	13,708	7.18%	11,438	5,197	16,635	20.37%	30,343	11.13%
Total	190,913	100%	41,193	40,471	81,663	100%	272,576	100%

Notes:

(1) Source: California Energy Commission. 2020 Total System electric Generation. <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation>

Table 23
SCE 2020 Power Content Mix

Energy Resources	2020 SCE Power Mix
Eligible Renewable	30.9%
<i>Biomass & Biowaste</i>	0.1%
<i>Geothermal</i>	5.5%
<i>Eligible Hydroelectric</i>	0.8%
<i>Solar</i>	15.1%
<i>Wind</i>	9.4%
Coal	0.0%
Large Hydroelectric	3.3%
Natural Gas	15.2%
Nuclear	8.4%
Other	0.3%
Unspecified Sources of power*	42.0%
Total	100%

Notes:

(1) https://www.sce.com/sites/default/files/inline-files/SCE_2020PowerContentLabel.pdf

* Unspecified sources of power means electricity from transactions that are not traceable to specific generation sources.

Table 24
Project Construction Power Cost and Electricity Usage

Power Cost (per 1,000 square foot of building per month of construction)	Total Building Size (1,000 Square Foot)	Construction Duration (months)	Total Project Construction Power Cost
\$2.32	254.511	9	\$5,314.19

Cost per kWh	Total Project Construction Electricity Usage (kWh)
\$0.13	40,878

*Assumes the project will be under the GS-1 General Service rate under SCE.
<https://www.sce.com/regulatory/tariff-books/rates-pricing-choices>

**Table 25
Construction Equipment Fuel Consumption Estimates**

Phase	Number of Days	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	HP hrs/day	Total Fuel Consumption (gal diesel fuel) ¹
Grading	30	Excavator	2	8	158	0.38	961	1,558
	30	Graders	1	8	187	0.41	613	995
	30	Rubber Tired Dozers	1	8	247	0.4	790	1,282
	30	Scrapers	2	8	367	0.48	2,819	4,571
	30	Tractors/Loaders/Backhoes	2	8	97	0.37	574	931
Building Construction	155	Cranes	2	7	231	0.29	938	7,858
	155	Forklifts	4	8	89	0.2	570	4,772
	155	Generator Sets	1	8	84	0.74	497	4,166
	155	Tractors/Loaders/Backhoes	4	7	97	0.37	1,005	8,420
	155	Welders	2	8	46	0.45	331	2,775
Paving	20	Pavers	2	8	130	0.42	874	944
	20	Paving Equipment	2	8	132	0.36	760	822
	20	Rollers	2	8	80	0.38	486	526
Architectural Coating	30	Air Compressors	1	6	78	0.48	225	364
CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)								39,984

Notes:

- (1) Using Carl Moyer Guidelines Table D-21 Fuel consumption rate factors (bhp-hr/gal) for engines less than 750 hp.
(Source: https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf)

Table 26
Construction Worker Fuel Consumption Estimates

Phase	Number of Days	Worker Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Grading	30	20	14.7	8,820	26.38	334
Building Construction	155	233	14.7	530,891	26.38	20,125
Paving	20	15	14.7	4,410	26.38	167
Architectural Coating	30	47	14.7	20,727	26.38	786
Total Construction Worker Fuel Consumption						21,412

Notes:

- (1) Assumptions for the worker trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.
- (2) CalEEMod worker vehicle class is based on an LD_Mix, which, per CalEEMod User's Guide (May 2021), includes LDA, LDT1, and LDT2 at a mix of 50%/25%/25%, respectively.

Table 27
Construction Vendor Fuel Consumption Estimates (MHD & HHD Trucks)

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Grading	30	0	6.9	0	6.73	0
Building Construction	155	91	6.9	97,325	6.73	14,461
Paving	20	0	6.9	0	6.73	0
Architectural Coating	30	0	6.9	0	6.73	0
Total Construction Vendor Fuel Consumption						14,461

Notes:

- (1) Assumptions for the vendor trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.
- (2) CalEEMod vendor vehicle class is based on an HDT_Mix, which, per CalEEMod User's Guide (May 2021), includes HHDT and MHDT at a mix of 50%/50%.

Table 28
Construction Hauling Fuel Consumption Estimates (HHD Trucks)

Phase	Number of Days	Total Hauling Trips	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Grading	30	3,304	20	66,080	5.87	11,257
Building Construction	155	0	20	0	5.87	0
Paving	20	0	20	0	5.87	0
Architectural Coating	30	0	20	0	5.87	0
Total Construction Hauling Fuel Consumption						11,257

Notes:

- (1) Assumptions for the hauling trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.

Table 29
Estimated Vehicle Operations Fuel Consumption

Vehicle Type	Vehicle Mix	Number of Vehicles	Average Trip (miles) ¹	Daily VMT	Average Fuel Economy (mpg)	Total Gallons per Day	Total Annual Fuel Consumption (gallons)
Light Auto	Automobile	194	16.6	3,220	29.76	108.21	39,498
Light Truck	Automobile	20	16.6	332	28.21	11.77	4,296
Light Truck	Automobile	63	16.6	1,046	23.05	45.37	16,560
Medium Truck	Automobile	51	16.6	847	19.28	43.91	16,027
Light Heavy Truck	2-Axle Truck	16	16.6	266	14.37	18.48	6,746
Light Heavy Truck 10,000 lbs +	2-Axle Truck	4	16.6	66	17.53	3.79	1,383
Medium Heavy Truck	3-Axle Truck	26	40	1,040	7.69	135.24	49,363
Heavy Heavy Truck	4-Axle Truck	78	40	3,120	5.97	522.61	190,754
Total		461	--	9,937	18.23	889.39	--
Total Annual Fuel Consumption							324,626

Notes:

(1) Based on the size of the site and relative location, trips were assumed to be local rather than regional.

Table 30
Project Annual Operational Energy Demand Summary

Natural Gas Demand	kBTU/year ¹
Unrefrigerated Warehouse - No Rail	511,567
Total	511,567

Electricity Demand	kWh/year
Unrefrigerated Warehouse - No Rail	590,466
Parking Lot	22,540
Total	613,006

Notes:

(1) Taken from the CalEEMod 2020.4.0 annual output (Appendix D of this report).

6. EMISSIONS REDUCTION MEASURES

CONSTRUCTION MEASURES

Adherence to SCAQMD Rule 403 is required.

No construction mitigation is required.

OPERATIONAL MEASURES

No operational mitigation is required.

7. REFERENCES

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

2008 ARB Recommended Interim Risk Management Policy for Inhalation-Based Residential Cancer Risk – Frequently Asked Questions

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

2013 Almanac of Emissions and Air Quality.
Source: <https://www.arb.ca.gov/aqd/almanac/almanac13/almanac13.htm>

2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

2017 California's 2017 Climate Change Scoping Plan. November.

2022 Historical Air Quality, Top 4 Summary

City of Perris

2005 City of Perris General Plan Conservation Element. July 12.

2015 City of Perris General Plan Healthy Community Element. June 9.

2016 City of Perris Climate Action Plan. February 23.

Ganddini Group, Inc.

2021 Redlands Avenue East Industrial Park Traffic Impact Analysis. August.

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2018 CEQA Guideline Sections to be Added or Amended

Intergovernmental Panel on Climate Change (IPCC).

2014 IPCC Fifth Assessment Report, Climate Change 2014: Synthesis Report

Office of Environmental Health Hazard Assessment

2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

South Coast Air Quality Management District

1993 CEQA Air Quality Handbook

2003 Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis

2005 Rule 403 Fugitive Dust

2007 2007 Air Quality Management Plan

2008 Final Localized Significance Threshold Methodology, Revised

2012 Final 2012 Air Quality Management Plan

2016 2016 Air Quality Management Plan

2022 Historical Data by Year. 2013, 2014 and 2015 Air Quality Data Tables.
Source: <http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year>

2021 MATES-V Multiple Air Toxics Exposure Study in the South Coast Air Basin. August.

Southern California Association of Governments

2020 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Environmental Protection Agency (EPA)

2017 Understanding Global Warming Potentials
(Source: <https://www.epa.gov/ghgemissions/understanding-global-warming-potentials>)

U.S. Geological Survey

2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

APPENDICES

Appendix A Glossary

Appendix B CalEEMod Model Daily Emissions Printouts

Appendix C AERMOD Model Printouts

Appendix D CalEEMod Model Annual Emissions Printouts and EMFAC Data

APPENDIX A

GLOSSARY

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH ₄	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
MTCO ₂ e	Metric tons of carbon dioxide equivalent
MMTCO ₂ e	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen Oxides
NO ₂	Nitrogen dioxide
N ₂ O	Nitrous oxide
O ₃	Ozone
OPR	Governor's Office of Planning and Research
PFCs	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
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SANBAG	San Bernardino Association of Governments
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SSAB	Salton Sea Air Basin
SF ₆	Sulfur hexafluoride
SIP	State Implementation Plan
SO _x	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B
CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

19371 Redlands Avenue East Industrial Project

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	254.51	1000sqft	5.75	254,511.00	0
Other Asphalt Surfaces	3.97	Acre	3.97	172,933.20	0
Other Non-Asphalt Surfaces	61.75	1000sqft	1.42	61,752.00	0
Parking Lot	161.00	Space	1.45	64,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 12.59 acres w/ 254.511 TSF warehouse (w/ 4 TSF mezzanine), 61,752 sf landscaping, 114 auto parking & 47 trailer parking stalls, & remainder paving of on-site drives/loading area etc. (~3.97ac).

Construction Phase - Construction anticipated to begin early November 2022 & be completed by the beginning of August 2023. Site vacant, no demo/site prep.

Off-road Equipment -

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~48%; therefore, ~48% more equipment added to default CalEEMod equipment list for building construction.

Grading - ~26,435 CY import during grading.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings for buildings to 50 g/L VOC.

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Trips - Per Traffic Study, 1.81 trips/TSF/day. Percentages changed to 73% autos (C-W) & 27% trucks (C-NW). Per SCAQMD C-NW trip length changed to 40 miles.

Sequestration - ~169 new trees per landscape plans.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site ~0.5 miles east of RTA Rte19 stop Perris FS Ensenada & ~2.96 miles NE downtown portion of Perris. Sidewalks on/off-site.

Water Mitigation - 20% reduction indoor water use per CalGreen standards. Water efficient irrigation systems.

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle fleet mix per traffic study of 73% Autos, 4.5% 2-Axle Trucks, 5.6% 3-Axle Trucks and 16.9% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	155.00
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.53	0.42
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.17	0.14
tblFleetMix	LHD1	0.03	0.04
tblFleetMix	LHD2	7.3100e-003	9.7020e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.11
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.06
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblGrading	MaterialImported	0.00	26,435.00
tblLandUse	LandUseSquareFeet	254,510.00 Apx-6	254,511.00

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblLandUse	LotAcreage	5.84	5.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	169.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	41.00	27.00
tblVehicleTrips	CW_TTP	59.00	73.00
tblVehicleTrips	ST_TR	1.74	1.81
tblVehicleTrips	SU_TR	1.74	1.81
tblVehicleTrips	WD_TR	1.74	1.81

2.0 Emissions Summary

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.0519	52.9602	33.4537	0.1274	11.4663	1.7995	13.2658	4.2584	1.6615	5.9200	0.0000	12,973.16 77	12,973.16 77	2.0407	1.0692	13,342.80 41
2023	47.5790	36.5811	51.0661	0.1095	3.8803	1.6423	5.5226	1.0423	1.5366	2.5789	0.0000	10,806.86 20	10,806.86 20	1.7376	0.3184	10,945.16 85
Maximum	47.5790	52.9602	51.0661	0.1274	11.4663	1.7995	13.2658	4.2584	1.6615	5.9200	0.0000	12,973.16 77	12,973.16 77	2.0407	1.0692	13,342.80 41

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.0519	52.9602	33.4537	0.1274	5.7841	1.7995	7.5836	2.0193	1.6615	3.6809	0.0000	12,973.16 77	12,973.16 77	2.0407	1.0692	13,342.80 41
2023	47.5790	36.5811	51.0661	0.1095	3.8803	1.6423	5.5226	1.0423	1.5366	2.5789	0.0000	10,806.86 20	10,806.86 20	1.7376	0.3184	10,945.16 85
Maximum	47.5790	52.9602	51.0661	0.1274	5.7841	1.7995	7.5836	2.0193	1.6615	3.6809	0.0000	12,973.16 77	12,973.16 77	2.0407	1.0692	13,342.80 41

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.03	0.00	30.24	42.24	0.00	26.35	0.00	0.00	0.00	0.00	0.00	0.00

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Energy	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Mobile	1.9772	11.8789	26.4099	0.1108	7.8209	0.1449	7.9658	2.1099	0.1378	2.2477		11,576.1324	11,576.1324	0.2928	1.0860	11,907.0829
Total	7.8113	12.0168	26.5745	0.1117	7.8209	0.1555	7.9764	2.1099	0.1484	2.2583		11,741.1264	11,741.1264	0.2962	1.0890	12,073.0636

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Energy	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Mobile	1.6995	9.5351	20.9900	0.0856	5.9994	0.1116	6.1110	1.6185	0.1061	1.7246		8,945.9077	8,945.9077	0.2351	0.8466	9,204.0601
Total	7.5336	9.6729	21.1545	0.0865	5.9994	0.1222	6.1216	1.6185	0.1167	1.7352		9,110.9017	9,110.9017	0.2385	0.8496	9,370.0408

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.55	19.50	20.40	22.56	23.29	21.42	23.25	23.29	21.35	23.16	0.00	22.40	22.40	19.47	21.99	22.39

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2022	12/12/2022	5	30	
2	Building Construction	Building Construction	12/13/2022	7/17/2023	5	155	
3	Paving	Paving	6/1/2023	6/28/2023	5	20	
4	Architectural Coating	Architectural Coating	6/21/2023	8/1/2023	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 6.84

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,767; Non-Residential Outdoor: 127,256; Striped Parking Area: 17,945 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	3,304.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	233.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3152	0.0000	9.3152	3.6707	0.0000	3.6707			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.3152	1.6349	10.9501	3.6707	1.5041	5.1748		6,011.4105	6,011.4105	1.9442		6,060.0158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3483	14.0656	3.1279	0.0633	1.9276	0.1635	2.0911	0.5285	0.1564	0.6849		6,755.0494	6,755.0494	0.0914	1.0641	7,074.4374
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0788	0.0511	0.7973	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		206.7078	206.7078	5.1200e-003	5.0800e-003	208.3509
Total	0.4271	14.1167	3.9252	0.0654	2.1512	0.1646	2.3158	0.5878	0.1575	0.7452		6,961.7572	6,961.7572	0.0965	1.0692	7,282.7883

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6329	0.0000	3.6329	1.4316	0.0000	1.4316			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.6329	1.6349	5.2678	1.4316	1.5041	2.9357	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3483	14.0656	3.1279	0.0633	1.9276	0.1635	2.0911	0.5285	0.1564	0.6849		6,755.0494	6,755.0494	0.0914	1.0641	7,074.4374
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0788	0.0511	0.7973	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		206.7078	206.7078	5.1200e-003	5.0800e-003	208.3509
Total	0.4271	14.1167	3.9252	0.0654	2.1512	0.1646	2.3158	0.5878	0.1575	0.7452		6,961.7572	6,961.7572	0.0965	1.0692	7,282.7883

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017		3,662.4028	3,662.4028	0.9280		3,685.6038
Total	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017		3,662.4028	3,662.4028	0.9280		3,685.6038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1481	3.8480	1.3380	0.0166	0.5829	0.0555	0.6384	0.1678	0.0531	0.2209		1,755.8026	1,755.8026	0.0186	0.2604	1,833.8597
Worker	0.9182	0.5951	9.2887	0.0237	2.6044	0.0130	2.6174	0.6907	0.0120	0.7027		2,408.1462	2,408.1462	0.0597	0.0592	2,427.2876
Total	1.0663	4.4431	10.6267	0.0402	3.1873	0.0685	3.2557	0.8585	0.0650	0.9236		4,163.9487	4,163.9487	0.0782	0.3196	4,261.1474

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017	0.0000	3,662.4028	3,662.4028	0.9280		3,685.6038
Total	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017	0.0000	3,662.4028	3,662.4028	0.9280		3,685.6038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1481	3.8480	1.3380	0.0166	0.5829	0.0555	0.6384	0.1678	0.0531	0.2209		1,755.8026	1,755.8026	0.0186	0.2604	1,833.8597
Worker	0.9182	0.5951	9.2887	0.0237	2.6044	0.0130	2.6174	0.6907	0.0120	0.7027		2,408.1462	2,408.1462	0.0597	0.0592	2,427.2876
Total	1.0663	4.4431	10.6267	0.0402	3.1873	0.0685	3.2557	0.8585	0.0650	0.9236		4,163.9487	4,163.9487	0.0782	0.3196	4,261.1474

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574		3,663.5648	3,663.5648	0.9218		3,686.6108
Total	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574		3,663.5648	3,663.5648	0.9218		3,686.6108

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1026	2.9730	1.2242	0.0159	0.5829	0.0259	0.6088	0.1678	0.0248	0.1926		1,685.9661	1,685.9661	0.0172	0.2491	1,760.6382
Worker	0.8513	0.5260	8.5478	0.0229	2.6044	0.0122	2.6166	0.6907	0.0113	0.7019		2,344.4530	2,344.4530	0.0535	0.0547	2,362.0804
Total	0.9538	3.4991	9.7720	0.0388	3.1873	0.0381	3.2254	0.8585	0.0360	0.8945		4,030.4191	4,030.4191	0.0707	0.3038	4,122.7187

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574	0.0000	3,663.5648	3,663.5648	0.9218		3,686.6108
Total	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574	0.0000	3,663.5648	3,663.5648	0.9218		3,686.6108

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1026	2.9730	1.2242	0.0159	0.5829	0.0259	0.6088	0.1678	0.0248	0.1926		1,685.9661	1,685.9661	0.0172	0.2491	1,760.6382
Worker	0.8513	0.5260	8.5478	0.0229	2.6044	0.0122	2.6166	0.6907	0.0113	0.7019		2,344.4530	2,344.4530	0.0535	0.0547	2,362.0804
Total	0.9538	3.4991	9.7720	0.0388	3.1873	0.0381	3.2254	0.8585	0.0360	0.8945		4,030.4191	4,030.4191	0.0707	0.3038	4,122.7187

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7100					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7428	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.7100					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7428	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	42.2862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1717	0.1061	1.7242	4.6200e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		472.9154	472.9154	0.0108	0.0110	476.4712
Total	0.1717	0.1061	1.7242	4.6200e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		472.9154	472.9154	0.0108	0.0110	476.4712

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	42.2862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1717	0.1061	1.7242	4.6200e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		472.9154	472.9154	0.0108	0.0110	476.4712
Total	0.1717	0.1061	1.7242	4.6200e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		472.9154	472.9154	0.0108	0.0110	476.4712

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6995	9.5351	20.9900	0.0856	5.9994	0.1116	6.1110	1.6185	0.1061	1.7246		8,945.9077	8,945.9077	0.2351	0.8466	9,204.0601
Unmitigated	1.9772	11.8789	26.4099	0.1108	7.8209	0.1449	7.9658	2.1099	0.1378	2.2477		11,576.1324	11,576.1324	0.2928	1.0860	11,907.0829

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	460.66	460.66	460.66	3,584,027	2,749,304
Total	460.66	460.66	460.66	3,584,027	2,749,304

4.3 Trip Type Information

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	40.00	73.00	0.00	27.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Non-Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Unrefrigerated Warehouse-No Rail	0.420472	0.044042	0.135720	0.110853	0.035298	0.009702	0.056000	0.169000	0.000000	0.000000	0.018912	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
NaturalGas Unmitigated	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1401.55	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Total		0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.40155	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Total		0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685

6.0 Area Detail

6.1 Mitigation Measures Area

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Unmitigated	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5500e-003	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Total	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5500e-003	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Total	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Use Water Efficient Irrigation System

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

19371 Redlands Avenue East Industrial Project

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	254.51	1000sqft	5.75	254,511.00	0
Other Asphalt Surfaces	3.97	Acre	3.97	172,933.20	0
Other Non-Asphalt Surfaces	61.75	1000sqft	1.42	61,752.00	0
Parking Lot	161.00	Space	1.45	64,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 12.59 acres w/ 254.511 TSF warehouse (w/ 4 TSF mezzanine), 61,752 sf landscaping, 114 auto parking & 47 trailer parking stalls, & remainder paving of on-site drives/loading area etc. (~3.97ac).

Construction Phase - Construction anticipated to begin early November 2022 & be completed by the beginning of August 2023. Site vacant, no demo/site prep.

Off-road Equipment -

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~48%; therefore, ~48% more equipment added to default CalEEMod equipment list for building construction.

Grading - ~26,435 CY import during grading.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings for buildings to 50 g/L VOC.

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Trips - Per Traffic Study, 1.81 trips/TSF/day. Percentages changed to 73% autos (C-W) & 27% trucks (C-NW). Per SCAQMD C-NW trip length changed to 40 miles.

Sequestration - ~169 new trees per landscape plans.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site ~0.5 miles east of RTA Rte19 stop Perris FS Ensenada & ~2.96 miles NE downtown portion of Perris. Sidewalks on/off-site.

Water Mitigation - 20% reduction indoor water use per CalGreen standards. Water efficient irrigation systems.

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle fleet mix per traffic study of 73% Autos, 4.5% 2-Axle Trucks, 5.6% 3-Axle Trucks and 16.9% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	155.00
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.53	0.42
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.17	0.14
tblFleetMix	LHD1	0.03	0.04
tblFleetMix	LHD2	7.3100e-003	9.7020e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.11
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.06
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblGrading	MaterialImported	0.00	26,435.00
tblLandUse	LandUseSquareFeet	254,510.00 Apx-31	254,511.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblLandUse	LotAcreage	5.84	5.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	169.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	41.00	27.00
tblVehicleTrips	CW_TTP	59.00	73.00
tblVehicleTrips	ST_TR	1.74	1.81
tblVehicleTrips	SU_TR	1.74	1.81
tblVehicleTrips	WD_TR	1.74	1.81

2.0 Emissions Summary

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.0301	53.7325	32.9014	0.1273	11.4663	1.7997	13.2661	4.2584	1.6618	5.9202	0.0000	12,958.85 16	12,958.85 16	2.0399	1.0701	13,328.74 75
2023	47.5038	36.7860	49.0729	0.1068	3.8803	1.6424	5.5227	1.0423	1.5367	2.5790	0.0000	10,532.29 27	10,532.29 27	1.7371	0.3208	10,671.31 60
Maximum	47.5038	53.7325	49.0729	0.1273	11.4663	1.7997	13.2661	4.2584	1.6618	5.9202	0.0000	12,958.85 16	12,958.85 16	2.0399	1.0701	13,328.74 75

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.0301	53.7325	32.9014	0.1273	5.7841	1.7997	7.5838	2.0193	1.6618	3.6811	0.0000	12,958.85 16	12,958.85 16	2.0399	1.0701	13,328.74 75
2023	47.5038	36.7860	49.0729	0.1068	3.8803	1.6424	5.5227	1.0423	1.5367	2.5790	0.0000	10,532.29 27	10,532.29 27	1.7371	0.3208	10,671.31 59
Maximum	47.5038	53.7325	49.0729	0.1273	5.7841	1.7997	7.5838	2.0193	1.6618	3.6811	0.0000	12,958.85 16	12,958.85 16	2.0399	1.0701	13,328.74 75

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.03	0.00	30.24	42.24	0.00	26.34	0.00	0.00	0.00	0.00	0.00	0.00

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Energy	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Mobile	1.7840	12.5710	23.0168	0.1065	7.8209	0.1450	7.9659	2.1099	0.1379	2.2478		11,136.9712	11,136.9712	0.2910	1.0924	11,469.7787
Total	7.6181	12.7089	23.1814	0.1074	7.8209	0.1556	7.9765	2.1099	0.1485	2.2584		11,301.9652	11,301.9652	0.2944	1.0954	11,635.7594

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Energy	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Mobile	1.5119	10.0992	18.4558	0.0824	5.9994	0.1117	6.1111	1.6185	0.1062	1.7247		8,610.8071	8,610.8071	0.2350	0.8519	8,870.5367
Total	7.3459	10.2371	18.6203	0.0832	5.9994	0.1223	6.1217	1.6185	0.1169	1.7353		8,775.8011	8,775.8011	0.2385	0.8549	9,036.5174

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.57	19.45	19.68	22.52	23.29	21.40	23.25	23.29	21.33	23.16	0.00	22.35	22.35	19.01	21.96	22.34

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2022	12/12/2022	5	30	
2	Building Construction	Building Construction	12/13/2022	7/17/2023	5	155	
3	Paving	Paving	6/1/2023	6/28/2023	5	20	
4	Architectural Coating	Architectural Coating	6/21/2023	8/1/2023	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 6.84

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,767; Non-Residential Outdoor: 127,256; Striped Parking Area: 17,945 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	3,304.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	233.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3152	0.0000	9.3152	3.6707	0.0000	3.6707			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.3152	1.6349	10.9501	3.6707	1.5041	5.1748		6,011.4105	6,011.4105	1.9442		6,060.0158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3317	14.8360	3.2137	0.0634	1.9276	0.1637	2.0913	0.5285	0.1566	0.6851		6,760.2063	6,760.2063	0.0906	1.0649	7,079.8188
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0736	0.0530	0.6462	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		187.2348	187.2348	5.0800e-003	5.2000e-003	188.9129
Total	0.4053	14.8890	3.8599	0.0652	2.1512	0.1648	2.3160	0.5878	0.1577	0.7454		6,947.4410	6,947.4410	0.0957	1.0701	7,268.7317

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6329	0.0000	3.6329	1.4316	0.0000	1.4316			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.6329	1.6349	5.2678	1.4316	1.5041	2.9357	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3317	14.8360	3.2137	0.0634	1.9276	0.1637	2.0913	0.5285	0.1566	0.6851		6,760.2063	6,760.2063	0.0906	1.0649	7,079.8188
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0736	0.0530	0.6462	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		187.2348	187.2348	5.0800e-003	5.2000e-003	188.9129
Total	0.4053	14.8890	3.8599	0.0652	2.1512	0.1648	2.3160	0.5878	0.1577	0.7454		6,947.4410	6,947.4410	0.0957	1.0701	7,268.7317

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017		3,662.4028	3,662.4028	0.9280		3,685.6038
Total	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017		3,662.4028	3,662.4028	0.9280		3,685.6038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1417	4.0540	1.3894	0.0166	0.5829	0.0556	0.6385	0.1678	0.0532	0.2210		1,757.7175	1,757.7175	0.0183	0.2609	1,835.9131
Worker	0.8578	0.6177	7.5279	0.0214	2.6044	0.0130	2.6174	0.6907	0.0120	0.7027		2,181.2850	2,181.2850	0.0592	0.0606	2,200.8349
Total	0.9995	4.6716	8.9173	0.0380	3.1873	0.0686	3.2559	0.8585	0.0652	0.9237		3,939.0025	3,939.0025	0.0775	0.3215	4,036.7479

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017	0.0000	3,662.4028	3,662.4028	0.9280		3,685.6038
Total	2.5671	23.2609	22.8270	0.0388		1.1737	1.1737		1.1017	1.1017	0.0000	3,662.4028	3,662.4028	0.9280		3,685.6038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1417	4.0540	1.3894	0.0166	0.5829	0.0556	0.6385	0.1678	0.0532	0.2210		1,757.7175	1,757.7175	0.0183	0.2609	1,835.9131
Worker	0.8578	0.6177	7.5279	0.0214	2.6044	0.0130	2.6174	0.6907	0.0120	0.7027		2,181.2850	2,181.2850	0.0592	0.0606	2,200.8349
Total	0.9995	4.6716	8.9173	0.0380	3.1873	0.0686	3.2559	0.8585	0.0652	0.9237		3,939.0025	3,939.0025	0.0775	0.3215	4,036.7479

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574		3,663.5648	3,663.5648	0.9218		3,686.6108
Total	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574		3,663.5648	3,663.5648	0.9218		3,686.6108

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0950	3.1530	1.2654	0.0159	0.5829	0.0260	0.6088	0.1678	0.0249	0.1927		1,690.1503	1,690.1503	0.0169	0.2500	1,765.0612
Worker	0.7979	0.5458	6.9410	0.0208	2.6044	0.0122	2.6166	0.6907	0.0113	0.7019		2,124.2851	2,124.2851	0.0534	0.0559	2,142.2900
Total	0.8929	3.6987	8.2063	0.0367	3.1873	0.0382	3.2255	0.8585	0.0361	0.8946		3,814.4353	3,814.4353	0.0702	0.3059	3,907.3511

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574	0.0000	3,663.5648	3,663.5648	0.9218		3,686.6108
Total	2.3697	21.4474	22.6243	0.0388		1.0199	1.0199		0.9574	0.9574	0.0000	3,663.5648	3,663.5648	0.9218		3,686.6108

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0950	3.1530	1.2654	0.0159	0.5829	0.0260	0.6088	0.1678	0.0249	0.1927		1,690.1503	1,690.1503	0.0169	0.2500	1,765.0612
Worker	0.7979	0.5458	6.9410	0.0208	2.6044	0.0122	2.6166	0.6907	0.0113	0.7019		2,124.2851	2,124.2851	0.0534	0.0559	2,142.2900
Total	0.8929	3.6987	8.2063	0.0367	3.1873	0.0382	3.2255	0.8585	0.0361	0.8946		3,814.4353	3,814.4353	0.0702	0.3059	3,907.3511

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7100					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7428	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.7100					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7428	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	42.2862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1610	0.1101	1.4001	4.1900e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		428.5039	428.5039	0.0108	0.0113	432.1358
Total	0.1610	0.1101	1.4001	4.1900e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		428.5039	428.5039	0.0108	0.0113	432.1358

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	42.2862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1610	0.1101	1.4001	4.1900e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		428.5039	428.5039	0.0108	0.0113	432.1358
Total	0.1610	0.1101	1.4001	4.1900e-003	0.5254	2.4600e-003	0.5278	0.1393	2.2700e-003	0.1416		428.5039	428.5039	0.0108	0.0113	432.1358

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5119	10.0992	18.4558	0.0824	5.9994	0.1117	6.1111	1.6185	0.1062	1.7247		8,610.807 1	8,610.807 1	0.2350	0.8519	8,870.536 7
Unmitigated	1.7840	12.5710	23.0168	0.1065	7.8209	0.1450	7.9659	2.1099	0.1379	2.2478		11,136.97 12	11,136.97 12	0.2910	1.0924	11,469.77 87

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	460.66	460.66	460.66	3,584,027	2,749,304
Total	460.66	460.66	460.66	3,584,027	2,749,304

4.3 Trip Type Information

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	40.00	73.00	0.00	27.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Non-Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Unrefrigerated Warehouse-No Rail	0.420472	0.044042	0.135720	0.110853	0.035298	0.009702	0.056000	0.169000	0.000000	0.000000	0.018912	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
NaturalGas Unmitigated	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1401.55	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Total		0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.40155	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685
Total		0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.8887	164.8887	3.1600e-003	3.0200e-003	165.8685

6.0 Area Detail

6.1 Mitigation Measures Area

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Unmitigated	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5500e-003	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Total	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1453					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5500e-003	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122
Total	5.8190	4.5000e-004	0.0491	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1053	0.1053	2.8000e-004		0.1122

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Use Water Efficient Irrigation System

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

APPENDIX C

AERMOD MODEL PRINTOUTS

Emission Assumptions **DPM** Emissions
19371 Redlands Avenue East Industrial Project

Facility Operations

Buildout year: 2023

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

(1) EMFAC2021

(a) Annual Meteorology

Temperature: 66 degF
Relative Humidity: 60%

(b) Calculations for Riverside County

(c) Truck Mix

4+ axle heavy-heavy duty diesel trucks (HHDT)
4 axle diesel trucks (MHDT)
2 axle diesel trucks (LHDT2)

(d) Onsite Truck Travel Speed: 10 mph

(e) Off-site Truck Travel Speed: 35 mph

(f) Idle speed: 0 mph

(g) Truck Idle time: 15 minutes per truck per day

2) Other Parameters

(a) Width of Volume Source: 12 feet

(b) Truck Operational Schedule 24 hours/day

(c) Height of Plume: 12 feet

19371 Redlands Avenue East Industrial Project		Emission:	DPM											
Processes Modeled		Build-out:	2023											
Onsite delivery traffic														
Truck idling														
Offsite delivery traffic														
Facilities in Operation														
Location	Truck type	Daily trucks												
Project Site	HHDT	78												
Project Site	MHDT	26												
Project Site	LHDT2	21												
Total		125												
Delivery Schedule:														
		24 hrs/day, 52 weeks/year												
Emission Factors 1 Year (2023)														
	Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)											
Vehicle Class														
HHDT	0.01139	0.00878	0.01257											
MHDT	0.00584	0.00393	0.04397											
LHDT2	0.04961	0.01929	0.78770											
Onsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)			
From northern project driveway to loading area to southern project driveway	HHDT	0.01139	78	576	0.36	3.18E-01	3.68E-06	2.52E+00	7.00E-04	1.28E-04				
From northern project driveway to loading area to southern project driveway	MHDT	0.00584	26	576	0.36	5.43E-02	6.29E-07	4.31E-01	1.20E-04	2.18E-05	8.62E-06	100% of trucks		
From northern project driveway to loading area to southern project driveway	LHDT2	0.04961	21	576	0.36	3.73E-01	4.31E-06	2.96E+00	8.21E-04	1.50E-04				
Truck Idling														
	Idle time		15 minutes											
Building/Location	Truck Type	Emission Factor (g/Idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)				
At truck loading areas	HHDT	0.01257	15	78	0.25	2.84E-06	2.25E-05	5.40E-04	9.85E-05					
At truck loading areas	MHDT	0.04397	15	26	0.29	3.31E-06	2.62E-05	6.30E-04	1.15E-04		5.40E-05			
At truck loading areas	LHDT2	0.78770	15	21	4.14	4.79E-05	3.80E-04	9.11E-03	1.66E-03		1.35E-05	per idling location (4 total)		
Offsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)				
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00878	78	225.8	0.14	9.61E-02	1.11E-06	7.62E-01	2.12E-04	3.86E-05	50% of trucks			
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00393	26	225.8	0.14	1.43E-02	1.66E-07	1.14E-01	3.16E-05	5.76E-06	9.68E-07			
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01929	21	225.8	0.14	5.68E-02	6.58E-07	4.51E-01	1.25E-04	2.28E-05				
Redlands Ave north of northern project driveway	HHDT	0.00878	78	574.1	0.36	2.44E-01	2.83E-06	1.94E+00	5.38E-04	9.82E-05	100% of trucks			
Redlands Ave north of northern project driveway	MHDT	0.00393	26	574.1	0.36	3.64E-02	4.22E-07	2.89E-01	8.03E-05	1.46E-05	4.92E-06			
Redlands Ave north of northern project driveway	LHDT2	0.01929	21	574.1	0.36	1.44E-01	1.67E-06	1.15E+00	3.18E-04	5.81E-05				

19371 Redlands Avenue East Industrial Project		Emission:	DPM											
Processes Modeled		Build-out:	2023											
Onsite delivery traffic														
Truck idling														
Offsite delivery traffic														
Facilities in Operation														
Location	Truck type	Daily trucks												
Project Site	HHDT	78												
Project Site	MHDT	26												
Project Site	LHDT2	21												
Total		125												
Delivery Schedule:		24 hrs/day, 52weeks/year												
Emission Factors 2 Year (2024-2025)														
	Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)											
Vehicle Class														
HHDT	0.01134	0.00889	0.01221											
MHDT	0.00563	0.00395	0.03562											
LHDT2	0.04668	0.01861	0.78961											
Onsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)			
From northern project driveway to loading area to southern project driveway	HHDT	0.01134	78	576	0.36	3.16E-01	3.66E-06	2.51E+00	6.97E-04	1.27E-04				
From northern project driveway to loading area to southern project driveway	MHDT	0.00563	26	576	0.36	5.24E-02	6.06E-07	4.15E-01	1.15E-04	2.11E-05	8.33E-06	100% of trucks		
From northern project driveway to loading area to southern project driveway	LHDT2	0.04668	21	576	0.36	3.51E-01	4.06E-06	2.78E+00	7.73E-04	1.41E-04				
Truck Idling		Idle time	15 minutes											
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)				
At truck loading areas	HHDT	0.01221	15	78	0.24	2.76E-06	2.19E-05	5.24E-04	9.57E-05					
At truck loading areas	MHDT	0.03562	15	26	0.23	2.68E-06	2.12E-05	5.10E-04	9.31E-05		5.34E-05			
At truck loading areas	LHDT2	0.78961	15	21	4.15	4.80E-05	3.80E-04	9.13E-03	1.67E-03		1.34E-05	per idling location (4 total)		
Offsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)				
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00889	78	225.8	0.14	9.73E-02	1.13E-06	7.71E-01	2.14E-04	3.91E-05	50% of trucks			
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00395	26	225.8	0.14	1.44E-02	1.67E-07	1.14E-01	3.17E-05	5.79E-06	9.63E-07			
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01861	21	225.8	0.14	5.48E-02	6.34E-07	4.35E-01	1.21E-04	2.20E-05				
Redlands Ave north of northern project driveway	HHDT	0.00889	78	574.1	0.36	2.47E-01	2.86E-06	1.96E+00	5.45E-04	9.94E-05	100% of trucks			
Redlands Ave north of northern project driveway	MHDT	0.00395	26	574.1	0.36	3.66E-02	4.24E-07	2.90E-01	8.07E-05	1.47E-05	4.90E-06			
Redlands Ave north of northern project driveway	LHDT2	0.01861	21	574.1	0.36	1.39E-01	1.61E-06	1.11E+00	3.07E-04	5.60E-05				

19371 Redlands Avenue East Industrial Project		Emission:	DPM										
Processes Modeled		Build-out:	2023										
Onsite delivery traffic													
Truck idling													
Offsite delivery traffic													
Facilities in Operation													
Location	Truck type	Daily trucks											
Project Site	HHDT	78											
Project Site	MHDT	26											
Project Site	LHDT2	21											
Total		125											
Delivery Schedule:		24 hrs/day, 52weeks/year											
Emission Factors 14 Year 2026-2039		Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)									
Vehicle Class													
HHDT		0.01025	0.00842	0.01085									
MHDT		0.00485	0.00384	0.01499									
LHDT2		0.03597	0.01602	0.79372									
Onsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)		
From northern project driveway to loading area to southern project driveway	HHDT	0.01025	78	576	0.36	2.86E-01	3.31E-06	2.27E+00	6.30E-04	1.15E-04			
From northern project driveway to loading area to southern project driveway	MHDT	0.00485	26	576	0.36	4.51E-02	5.22E-07	3.58E-01	9.94E-05	1.81E-05	6.96E-06	100% of trucks	
From northern project driveway to loading area to southern project driveway	LHDT2	0.03597	21	576	0.36	2.70E-01	3.13E-06	2.14E+00	5.95E-04	1.09E-04			
Truck Idling		Idle time	15 minutes										
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)			
At truck loading areas	HHDT	0.01085	15	78	0.21	2.45E-06	1.94E-05	4.66E-04	8.50E-05				
At truck loading areas	MHDT	0.01499	15	26	0.10	1.13E-06	8.94E-06	2.16E-04	3.92E-05		5.18E-05		
At truck loading areas	LHDT2	0.79372	15	21	4.17	4.82E-05	3.82E-04	9.18E-03	1.68E-03		1.30E-05	per idling location (4 total)	
Offsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)			
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00842	78	225.8	0.14	9.21E-02	1.07E-06	7.30E-01	2.03E-04	3.70E-05	50% of trucks		
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00384	26	225.8	0.14	1.40E-02	1.62E-07	1.11E-01	3.08E-05	5.63E-06	8.87E-07		
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01602	21	225.8	0.14	4.72E-02	5.46E-07	3.74E-01	1.04E-04	1.90E-05			
Redlands Ave north of northern project driveway	HHDT	0.00842	78	574.1	0.36	2.34E-01	2.71E-06	1.86E+00	5.16E-04	9.42E-05	100% of trucks		
Redlands Ave north of northern project driveway	MHDT	0.00384	26	574.1	0.36	3.56E-02	4.12E-07	2.82E-01	7.84E-05	1.43E-05	4.51E-06		
Redlands Ave north of northern project driveway	LHDT2	0.01602	21	574.1	0.36	1.20E-01	1.39E-06	9.51E-01	2.64E-04	4.82E-05			

19371 Redlands Avenue East Industrial Project			Emission:	DPM											
Processes Modeled			Build-out:	2023											
Onsite delivery traffic															
Truck idling															
Offsite delivery traffic															
Facilities in Operation															
Location	Truck type	Daily trucks													
Project Site	HHDT	78													
Project Site	MHDT	26													
Project Site	LHDT2	21													
Total		125													
Delivery Schedule:															
		24 hrs/day, 52weeks/year													
Emission Factors 14 Year 2040-2053															
	Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)												
Vehicle Class															
HHDT	0.00957	0.00810	0.01014												
MHDT	0.00434	0.00367	0.00764												
LHDT2	0.02896	0.01430	0.79463												
Onsite Roadway Links Modeled															
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)				
From northern project driveway to loading area to southern project dr	HHDT	0.00957	78	576	0.36	2.67E-01	3.09E-06	2.12E+00	5.88E-04	1.07E-04					
From northern project driveway to loading area to southern project dr	MHDT	0.00434	26	576	0.36	4.04E-02	4.67E-07	3.20E-01	8.89E-05	1.62E-05	6.08E-06	100%	of trucks		
From northern project driveway to loading area to southern project dr	LHDT2	0.02896	21	576	0.36	2.18E-01	2.52E-06	1.73E+00	4.79E-04	8.75E-05					
Truck Idling			Idle time	15 minutes											
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)					
At truck loading areas	HHDT	0.01014	15	78	0.20	2.29E-06	1.81E-05	4.36E-04	7.95E-05						
At truck loading areas	MHDT	0.00764	15	26	0.05	5.75E-07	4.56E-06	1.09E-04	2.00E-05		5.11E-05				
At truck loading areas	LHDT2	0.79463	15	21	4.17	4.83E-05	3.83E-04	9.19E-03	1.68E-03		1.28E-05	per idling location	(4 total)		
Offsite Roadway Links Modeled															
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)					
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00810	78	225.8	0.14	8.86E-02	1.03E-06	7.03E-01	1.95E-04	3.56E-05	50%	of trucks			
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00367	26	225.8	0.14	1.34E-02	1.55E-07	1.06E-01	2.95E-05	5.38E-06	8.34E-07				
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01430	21	225.8	0.14	4.21E-02	4.88E-07	3.34E-01	9.28E-05	1.69E-05					
Redlands Ave north of northern project driveway	HHDT	0.00810	78	574.1	0.36	2.25E-01	2.61E-06	1.79E+00	4.96E-04	9.06E-05	100%	of trucks			
Redlands Ave north of northern project driveway	MHDT	0.00367	26	574.1	0.36	3.40E-02	3.94E-07	2.70E-01	7.50E-05	1.37E-05	4.24E-06				
Redlands Ave north of northern project driveway	LHDT2	0.01430	21	574.1	0.36	1.07E-01	1.24E-06	8.49E-01	2.36E-04	4.31E-05					


```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/17/2021
** File: C:\Lakes\AERMOD View\19371 Redlands Ave East Industrial.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE 19371 Redlands Ave East Industrial
  TITLETWO DPM Concentrations - OY 2023
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2189641 Riverside_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "19371 Redlands Ave East Industrial.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Northern project drive to loading to southern project drive
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 8.62E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 9
** 479892.242, 3742773.165, 440.27, 0.00, 1.70
** 479918.594, 3742770.631, 440.11, 0.00, 1.70

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** 479930.481, 3742766.507, 440.01, 0.00, 1.70
 ** 480061.235, 3742767.720, 439.55, 0.00, 1.70
 ** 480062.694, 3743002.863, 439.74, 0.00, 1.70
 ** 480062.670, 3743004.786, 439.74, 0.00, 1.70
 ** 479934.893, 3743004.476, 440.18, 0.00, 1.70
 ** 479917.905, 3742998.550, 440.32, 0.00, 1.70
 ** 479894.578, 3742998.262, 440.60, 0.00, 1.70

** -----

LOCATION	VOLUME				
L0001848	479894.062	3742772.990	440.28		
L0001849	479897.703	3742772.640	440.24		
L0001850	479901.344	3742772.290	440.21		
L0001851	479904.985	3742771.940	440.17		
L0001852	479908.625	3742771.590	440.14		
L0001853	479912.266	3742771.240	440.11		
L0001854	479915.907	3742770.890	440.09		
L0001855	479919.499	3742770.317	440.07		
L0001856	479922.955	3742769.119	440.05		
L0001857	479926.410	3742767.920	440.03		
L0001858	479929.866	3742766.721	440.01		
L0001859	479933.488	3742766.535	439.99		
L0001860	479937.145	3742766.569	439.97		
L0001861	479940.802	3742766.603	439.96		
L0001862	479944.460	3742766.637	439.95		
L0001863	479948.117	3742766.671	439.94		
L0001864	479951.775	3742766.705	439.92		
L0001865	479955.432	3742766.739	439.91		
L0001866	479959.090	3742766.773	439.90		
L0001867	479962.747	3742766.807	439.89		
L0001868	479966.405	3742766.841	439.88		
L0001869	479970.062	3742766.875	439.87		
L0001870	479973.719	3742766.909	439.87		
L0001871	479977.377	3742766.943	439.86		
L0001872	479981.034	3742766.976	439.85		
L0001873	479984.692	3742767.010	439.85		
L0001874	479988.349	3742767.044	439.84		
L0001875	479992.007	3742767.078	439.82		
L0001876	479995.664	3742767.112	439.81		
L0001877	479999.322	3742767.146	439.80		
L0001878	480002.979	3742767.180	439.78		
L0001879	480006.636	3742767.214	439.77		
L0001880	480010.294	3742767.248	439.75		
L0001881	480013.951	3742767.282	439.74		
L0001882	480017.609	3742767.316	439.72		
L0001883	480021.266	3742767.350	439.71		
L0001884	480024.924	3742767.384	439.69		
L0001885	480028.581	3742767.417	439.68		
L0001886	480032.238	3742767.451	439.66		
L0001887	480035.896	3742767.485	439.65		
L0001888	480039.553	3742767.519	439.63		
L0001889	480043.211	3742767.553	439.62		
L0001890	480046.868	3742767.587	439.60		

LOCATION	L0001891	VOLUME	480050.526	3742767.621	439.59
LOCATION	L0001892	VOLUME	480054.183	3742767.655	439.57
LOCATION	L0001893	VOLUME	480057.841	3742767.689	439.56
LOCATION	L0001894	VOLUME	480061.237	3742767.983	439.54
LOCATION	L0001895	VOLUME	480061.259	3742771.641	439.54
LOCATION	L0001896	VOLUME	480061.282	3742775.298	439.53
LOCATION	L0001897	VOLUME	480061.305	3742778.956	439.52
LOCATION	L0001898	VOLUME	480061.328	3742782.613	439.51
LOCATION	L0001899	VOLUME	480061.350	3742786.271	439.50
LOCATION	L0001900	VOLUME	480061.373	3742789.928	439.49
LOCATION	L0001901	VOLUME	480061.396	3742793.586	439.48
LOCATION	L0001902	VOLUME	480061.418	3742797.244	439.48
LOCATION	L0001903	VOLUME	480061.441	3742800.901	439.47
LOCATION	L0001904	VOLUME	480061.464	3742804.559	439.46
LOCATION	L0001905	VOLUME	480061.486	3742808.216	439.45
LOCATION	L0001906	VOLUME	480061.509	3742811.874	439.45
LOCATION	L0001907	VOLUME	480061.532	3742815.531	439.44
LOCATION	L0001908	VOLUME	480061.555	3742819.189	439.43
LOCATION	L0001909	VOLUME	480061.577	3742822.846	439.43
LOCATION	L0001910	VOLUME	480061.600	3742826.504	439.42
LOCATION	L0001911	VOLUME	480061.623	3742830.161	439.42
LOCATION	L0001912	VOLUME	480061.645	3742833.819	439.42
LOCATION	L0001913	VOLUME	480061.668	3742837.476	439.41
LOCATION	L0001914	VOLUME	480061.691	3742841.134	439.41
LOCATION	L0001915	VOLUME	480061.713	3742844.791	439.40
LOCATION	L0001916	VOLUME	480061.736	3742848.449	439.40
LOCATION	L0001917	VOLUME	480061.759	3742852.106	439.40
LOCATION	L0001918	VOLUME	480061.782	3742855.764	439.41
LOCATION	L0001919	VOLUME	480061.804	3742859.422	439.41
LOCATION	L0001920	VOLUME	480061.827	3742863.079	439.42
LOCATION	L0001921	VOLUME	480061.850	3742866.737	439.42
LOCATION	L0001922	VOLUME	480061.872	3742870.394	439.43
LOCATION	L0001923	VOLUME	480061.895	3742874.052	439.44
LOCATION	L0001924	VOLUME	480061.918	3742877.709	439.44
LOCATION	L0001925	VOLUME	480061.940	3742881.367	439.45
LOCATION	L0001926	VOLUME	480061.963	3742885.024	439.45
LOCATION	L0001927	VOLUME	480061.986	3742888.682	439.46
LOCATION	L0001928	VOLUME	480062.009	3742892.339	439.46
LOCATION	L0001929	VOLUME	480062.031	3742895.997	439.47
LOCATION	L0001930	VOLUME	480062.054	3742899.654	439.47
LOCATION	L0001931	VOLUME	480062.077	3742903.312	439.48
LOCATION	L0001932	VOLUME	480062.099	3742906.969	439.48
LOCATION	L0001933	VOLUME	480062.122	3742910.627	439.48
LOCATION	L0001934	VOLUME	480062.145	3742914.284	439.49
LOCATION	L0001935	VOLUME	480062.167	3742917.942	439.51
LOCATION	L0001936	VOLUME	480062.190	3742921.600	439.52
LOCATION	L0001937	VOLUME	480062.213	3742925.257	439.53
LOCATION	L0001938	VOLUME	480062.236	3742928.915	439.54
LOCATION	L0001939	VOLUME	480062.258	3742932.572	439.56
LOCATION	L0001940	VOLUME	480062.281	3742936.230	439.57
LOCATION	L0001941	VOLUME	480062.304	3742939.887	439.58

LOCATION	L0001942	VOLUME	480062.326	3742943.545	439.59
LOCATION	L0001943	VOLUME	480062.349	3742947.202	439.60
LOCATION	L0001944	VOLUME	480062.372	3742950.860	439.61
LOCATION	L0001945	VOLUME	480062.394	3742954.517	439.61
LOCATION	L0001946	VOLUME	480062.417	3742958.175	439.62
LOCATION	L0001947	VOLUME	480062.440	3742961.832	439.63
LOCATION	L0001948	VOLUME	480062.463	3742965.490	439.63
LOCATION	L0001949	VOLUME	480062.485	3742969.147	439.64
LOCATION	L0001950	VOLUME	480062.508	3742972.805	439.65
LOCATION	L0001951	VOLUME	480062.531	3742976.462	439.66
LOCATION	L0001952	VOLUME	480062.553	3742980.120	439.67
LOCATION	L0001953	VOLUME	480062.576	3742983.778	439.68
LOCATION	L0001954	VOLUME	480062.599	3742987.435	439.69
LOCATION	L0001955	VOLUME	480062.621	3742991.093	439.70
LOCATION	L0001956	VOLUME	480062.644	3742994.750	439.71
LOCATION	L0001957	VOLUME	480062.667	3742998.408	439.73
LOCATION	L0001958	VOLUME	480062.690	3743002.065	439.74
LOCATION	L0001959	VOLUME	480061.734	3743004.784	439.75
LOCATION	L0001960	VOLUME	480058.076	3743004.775	439.76
LOCATION	L0001961	VOLUME	480054.419	3743004.766	439.78
LOCATION	L0001962	VOLUME	480050.761	3743004.757	439.79
LOCATION	L0001963	VOLUME	480047.104	3743004.749	439.80
LOCATION	L0001964	VOLUME	480043.446	3743004.740	439.81
LOCATION	L0001965	VOLUME	480039.789	3743004.731	439.83
LOCATION	L0001966	VOLUME	480036.131	3743004.722	439.84
LOCATION	L0001967	VOLUME	480032.473	3743004.713	439.86
LOCATION	L0001968	VOLUME	480028.816	3743004.704	439.87
LOCATION	L0001969	VOLUME	480025.158	3743004.695	439.88
LOCATION	L0001970	VOLUME	480021.501	3743004.686	439.90
LOCATION	L0001971	VOLUME	480017.843	3743004.677	439.91
LOCATION	L0001972	VOLUME	480014.185	3743004.669	439.93
LOCATION	L0001973	VOLUME	480010.528	3743004.660	439.94
LOCATION	L0001974	VOLUME	480006.870	3743004.651	439.95
LOCATION	L0001975	VOLUME	480003.213	3743004.642	439.97
LOCATION	L0001976	VOLUME	479999.555	3743004.633	439.98
LOCATION	L0001977	VOLUME	479995.897	3743004.624	440.00
LOCATION	L0001978	VOLUME	479992.240	3743004.615	440.01
LOCATION	L0001979	VOLUME	479988.582	3743004.606	440.02
LOCATION	L0001980	VOLUME	479984.925	3743004.597	440.04
LOCATION	L0001981	VOLUME	479981.267	3743004.588	440.05
LOCATION	L0001982	VOLUME	479977.610	3743004.580	440.06
LOCATION	L0001983	VOLUME	479973.952	3743004.571	440.07
LOCATION	L0001984	VOLUME	479970.294	3743004.562	440.09
LOCATION	L0001985	VOLUME	479966.637	3743004.553	440.10
LOCATION	L0001986	VOLUME	479962.979	3743004.544	440.11
LOCATION	L0001987	VOLUME	479959.322	3743004.535	440.12
LOCATION	L0001988	VOLUME	479955.664	3743004.526	440.13
LOCATION	L0001989	VOLUME	479952.006	3743004.517	440.14
LOCATION	L0001990	VOLUME	479948.349	3743004.508	440.15
LOCATION	L0001991	VOLUME	479944.691	3743004.500	440.16
LOCATION	L0001992	VOLUME	479941.034	3743004.491	440.17

LOCATION	L0001993	VOLUME	479937.376	3743004.482	440.18
LOCATION	L0001994	VOLUME	479933.784	3743004.089	440.20
LOCATION	L0001995	VOLUME	479930.330	3743002.884	440.21
LOCATION	L0001996	VOLUME	479926.877	3743001.679	440.23
LOCATION	L0001997	VOLUME	479923.423	3743000.475	440.25
LOCATION	L0001998	VOLUME	479919.970	3742999.270	440.27
LOCATION	L0001999	VOLUME	479916.434	3742998.532	440.29
LOCATION	L0002000	VOLUME	479912.777	3742998.487	440.31
LOCATION	L0002001	VOLUME	479909.120	3742998.442	440.35
LOCATION	L0002002	VOLUME	479905.463	3742998.397	440.39
LOCATION	L0002003	VOLUME	479901.805	3742998.351	440.43
LOCATION	L0002004	VOLUME	479898.148	3742998.306	440.47

** End of LINE VOLUME Source ID = SLINE1

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Redlands Ave S project driveway to N project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 9.68E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 479887.270, 3742772.613, 440.29, 0.00, 1.70

** 479888.653, 3742998.428, 440.60, 0.00, 1.70

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LOCATION	L0002162	VOLUME	479887.281	3742774.441	440.35
LOCATION	L0002163	VOLUME	479887.304	3742778.099	440.36
LOCATION	L0002164	VOLUME	479887.326	3742781.757	440.36
LOCATION	L0002165	VOLUME	479887.349	3742785.414	440.37
LOCATION	L0002166	VOLUME	479887.371	3742789.072	440.38
LOCATION	L0002167	VOLUME	479887.393	3742792.729	440.39
LOCATION	L0002168	VOLUME	479887.416	3742796.387	440.40
LOCATION	L0002169	VOLUME	479887.438	3742800.044	440.42
LOCATION	L0002170	VOLUME	479887.461	3742803.702	440.43
LOCATION	L0002171	VOLUME	479887.483	3742807.359	440.44
LOCATION	L0002172	VOLUME	479887.505	3742811.017	440.46
LOCATION	L0002173	VOLUME	479887.528	3742814.674	440.47
LOCATION	L0002174	VOLUME	479887.550	3742818.332	440.48
LOCATION	L0002175	VOLUME	479887.573	3742821.989	440.49
LOCATION	L0002176	VOLUME	479887.595	3742825.647	440.49
LOCATION	L0002177	VOLUME	479887.617	3742829.304	440.50
LOCATION	L0002178	VOLUME	479887.640	3742832.962	440.50
LOCATION	L0002179	VOLUME	479887.662	3742836.620	440.51
LOCATION	L0002180	VOLUME	479887.685	3742840.277	440.51
LOCATION	L0002181	VOLUME	479887.707	3742843.935	440.51
LOCATION	L0002182	VOLUME	479887.729	3742847.592	440.52
LOCATION	L0002183	VOLUME	479887.752	3742851.250	440.52
LOCATION	L0002184	VOLUME	479887.774	3742854.907	440.52

LOCATION	L0002185	VOLUME	479887.797	3742858.565	440.52
LOCATION	L0002186	VOLUME	479887.819	3742862.222	440.51
LOCATION	L0002187	VOLUME	479887.841	3742865.880	440.51
LOCATION	L0002188	VOLUME	479887.864	3742869.537	440.51
LOCATION	L0002189	VOLUME	479887.886	3742873.195	440.50
LOCATION	L0002190	VOLUME	479887.909	3742876.852	440.50
LOCATION	L0002191	VOLUME	479887.931	3742880.510	440.50
LOCATION	L0002192	VOLUME	479887.953	3742884.167	440.49
LOCATION	L0002193	VOLUME	479887.976	3742887.825	440.48
LOCATION	L0002194	VOLUME	479887.998	3742891.483	440.48
LOCATION	L0002195	VOLUME	479888.021	3742895.140	440.47
LOCATION	L0002196	VOLUME	479888.043	3742898.798	440.46
LOCATION	L0002197	VOLUME	479888.065	3742902.455	440.46
LOCATION	L0002198	VOLUME	479888.088	3742906.113	440.45
LOCATION	L0002199	VOLUME	479888.110	3742909.770	440.44
LOCATION	L0002200	VOLUME	479888.133	3742913.428	440.44
LOCATION	L0002201	VOLUME	479888.155	3742917.085	440.44
LOCATION	L0002202	VOLUME	479888.177	3742920.743	440.45
LOCATION	L0002203	VOLUME	479888.200	3742924.400	440.45
LOCATION	L0002204	VOLUME	479888.222	3742928.058	440.45
LOCATION	L0002205	VOLUME	479888.245	3742931.715	440.46
LOCATION	L0002206	VOLUME	479888.267	3742935.373	440.46
LOCATION	L0002207	VOLUME	479888.289	3742939.030	440.46
LOCATION	L0002208	VOLUME	479888.312	3742942.688	440.47
LOCATION	L0002209	VOLUME	479888.334	3742946.345	440.47
LOCATION	L0002210	VOLUME	479888.357	3742950.003	440.48
LOCATION	L0002211	VOLUME	479888.379	3742953.661	440.49
LOCATION	L0002212	VOLUME	479888.401	3742957.318	440.50
LOCATION	L0002213	VOLUME	479888.424	3742960.976	440.50
LOCATION	L0002214	VOLUME	479888.446	3742964.633	440.51
LOCATION	L0002215	VOLUME	479888.469	3742968.291	440.52
LOCATION	L0002216	VOLUME	479888.491	3742971.948	440.52
LOCATION	L0002217	VOLUME	479888.513	3742975.606	440.53
LOCATION	L0002218	VOLUME	479888.536	3742979.263	440.54
LOCATION	L0002219	VOLUME	479888.558	3742982.921	440.54
LOCATION	L0002220	VOLUME	479888.581	3742986.578	440.55
LOCATION	L0002221	VOLUME	479888.603	3742990.236	440.55
LOCATION	L0002222	VOLUME	479888.625	3742993.893	440.56
LOCATION	L0002223	VOLUME	479888.648	3742997.551	440.57

** End of LINE VOLUME Source ID = SLINE2

**

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Redlands Ave north of northern project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 4.92E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

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** Nodes = 4
** 479888.636, 3743002.089, 440.60, 0.00, 1.70
** 479893.826, 3743342.010, 440.41, 0.00, 1.70
** 479898.370, 3743357.588, 440.21, 0.00, 1.70
** 479906.036, 3743575.324, 439.75, 0.00, 1.70

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** LOCATION L0002224    VOLUME  479888.664 3743003.918 440.58
LOCATION L0002225    VOLUME  479888.720 3743007.575 440.59
LOCATION L0002226    VOLUME  479888.776 3743011.232 440.61
LOCATION L0002227    VOLUME  479888.831 3743014.889 440.62
LOCATION L0002228    VOLUME  479888.887 3743018.547 440.64
LOCATION L0002229    VOLUME  479888.943 3743022.204 440.65
LOCATION L0002230    VOLUME  479888.999 3743025.861 440.67
LOCATION L0002231    VOLUME  479889.055 3743029.518 440.68
LOCATION L0002232    VOLUME  479889.111 3743033.175 440.70
LOCATION L0002233    VOLUME  479889.167 3743036.833 440.72
LOCATION L0002234    VOLUME  479889.222 3743040.490 440.74
LOCATION L0002235    VOLUME  479889.278 3743044.147 440.76
LOCATION L0002236    VOLUME  479889.334 3743047.804 440.78
LOCATION L0002237    VOLUME  479889.390 3743051.461 440.80
LOCATION L0002238    VOLUME  479889.446 3743055.118 440.82
LOCATION L0002239    VOLUME  479889.502 3743058.776 440.84
LOCATION L0002240    VOLUME  479889.557 3743062.433 440.86
LOCATION L0002241    VOLUME  479889.613 3743066.090 440.88
LOCATION L0002242    VOLUME  479889.669 3743069.747 440.89
LOCATION L0002243    VOLUME  479889.725 3743073.404 440.91
LOCATION L0002244    VOLUME  479889.781 3743077.061 440.92
LOCATION L0002245    VOLUME  479889.837 3743080.719 440.94
LOCATION L0002246    VOLUME  479889.892 3743084.376 440.95
LOCATION L0002247    VOLUME  479889.948 3743088.033 440.97
LOCATION L0002248    VOLUME  479890.004 3743091.690 440.98
LOCATION L0002249    VOLUME  479890.060 3743095.347 441.00
LOCATION L0002250    VOLUME  479890.116 3743099.004 441.00
LOCATION L0002251    VOLUME  479890.172 3743102.662 441.00
LOCATION L0002252    VOLUME  479890.228 3743106.319 441.00
LOCATION L0002253    VOLUME  479890.283 3743109.976 441.00
LOCATION L0002254    VOLUME  479890.339 3743113.633 440.99
LOCATION L0002255    VOLUME  479890.395 3743117.290 440.99
LOCATION L0002256    VOLUME  479890.451 3743120.948 440.99
LOCATION L0002257    VOLUME  479890.507 3743124.605 440.99
LOCATION L0002258    VOLUME  479890.563 3743128.262 440.99
LOCATION L0002259    VOLUME  479890.618 3743131.919 440.98
LOCATION L0002260    VOLUME  479890.674 3743135.576 440.97
LOCATION L0002261    VOLUME  479890.730 3743139.233 440.97
LOCATION L0002262    VOLUME  479890.786 3743142.891 440.96
LOCATION L0002263    VOLUME  479890.842 3743146.548 440.95
LOCATION L0002264    VOLUME  479890.898 3743150.205 440.95
LOCATION L0002265    VOLUME  479890.953 3743153.862 440.94
LOCATION L0002266    VOLUME  479891.009 3743157.519 440.93
LOCATION L0002267    VOLUME  479891.065 3743161.176 440.93
LOCATION L0002268    VOLUME  479891.121 3743164.834 440.92

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LOCATION	L0002269	VOLUME	479891.177	3743168.491	440.91
LOCATION	L0002270	VOLUME	479891.233	3743172.148	440.90
LOCATION	L0002271	VOLUME	479891.289	3743175.805	440.89
LOCATION	L0002272	VOLUME	479891.344	3743179.462	440.88
LOCATION	L0002273	VOLUME	479891.400	3743183.119	440.87
LOCATION	L0002274	VOLUME	479891.456	3743186.777	440.86
LOCATION	L0002275	VOLUME	479891.512	3743190.434	440.85
LOCATION	L0002276	VOLUME	479891.568	3743194.091	440.84
LOCATION	L0002277	VOLUME	479891.624	3743197.748	440.84
LOCATION	L0002278	VOLUME	479891.679	3743201.405	440.83
LOCATION	L0002279	VOLUME	479891.735	3743205.063	440.82
LOCATION	L0002280	VOLUME	479891.791	3743208.720	440.82
LOCATION	L0002281	VOLUME	479891.847	3743212.377	440.81
LOCATION	L0002282	VOLUME	479891.903	3743216.034	440.81
LOCATION	L0002283	VOLUME	479891.959	3743219.691	440.80
LOCATION	L0002284	VOLUME	479892.014	3743223.348	440.79
LOCATION	L0002285	VOLUME	479892.070	3743227.006	440.79
LOCATION	L0002286	VOLUME	479892.126	3743230.663	440.78
LOCATION	L0002287	VOLUME	479892.182	3743234.320	440.77
LOCATION	L0002288	VOLUME	479892.238	3743237.977	440.77
LOCATION	L0002289	VOLUME	479892.294	3743241.634	440.76
LOCATION	L0002290	VOLUME	479892.349	3743245.291	440.76
LOCATION	L0002291	VOLUME	479892.405	3743248.949	440.75
LOCATION	L0002292	VOLUME	479892.461	3743252.606	440.74
LOCATION	L0002293	VOLUME	479892.517	3743256.263	440.73
LOCATION	L0002294	VOLUME	479892.573	3743259.920	440.72
LOCATION	L0002295	VOLUME	479892.629	3743263.577	440.70
LOCATION	L0002296	VOLUME	479892.685	3743267.234	440.69
LOCATION	L0002297	VOLUME	479892.740	3743270.892	440.68
LOCATION	L0002298	VOLUME	479892.796	3743274.549	440.67
LOCATION	L0002299	VOLUME	479892.852	3743278.206	440.66
LOCATION	L0002300	VOLUME	479892.908	3743281.863	440.64
LOCATION	L0002301	VOLUME	479892.964	3743285.520	440.63
LOCATION	L0002302	VOLUME	479893.020	3743289.178	440.62
LOCATION	L0002303	VOLUME	479893.075	3743292.835	440.61
LOCATION	L0002304	VOLUME	479893.131	3743296.492	440.60
LOCATION	L0002305	VOLUME	479893.187	3743300.149	440.59
LOCATION	L0002306	VOLUME	479893.243	3743303.806	440.57
LOCATION	L0002307	VOLUME	479893.299	3743307.463	440.56
LOCATION	L0002308	VOLUME	479893.355	3743311.121	440.55
LOCATION	L0002309	VOLUME	479893.410	3743314.778	440.54
LOCATION	L0002310	VOLUME	479893.466	3743318.435	440.52
LOCATION	L0002311	VOLUME	479893.522	3743322.092	440.50
LOCATION	L0002312	VOLUME	479893.578	3743325.749	440.49
LOCATION	L0002313	VOLUME	479893.634	3743329.406	440.47
LOCATION	L0002314	VOLUME	479893.690	3743333.064	440.45
LOCATION	L0002315	VOLUME	479893.746	3743336.721	440.44
LOCATION	L0002316	VOLUME	479893.801	3743340.378	440.42
LOCATION	L0002317	VOLUME	479894.393	3743343.954	440.40
LOCATION	L0002318	VOLUME	479895.418	3743347.466	440.37
LOCATION	L0002319	VOLUME	479896.442	3743350.977	440.34

LOCATION	L0002320	VOLUME	479897.466	3743354.488	440.31
LOCATION	L0002321	VOLUME	479898.385	3743358.016	440.28
LOCATION	L0002322	VOLUME	479898.514	3743361.672	440.25
LOCATION	L0002323	VOLUME	479898.642	3743365.327	440.22
LOCATION	L0002324	VOLUME	479898.771	3743368.982	440.19
LOCATION	L0002325	VOLUME	479898.900	3743372.638	440.16
LOCATION	L0002326	VOLUME	479899.029	3743376.293	440.12
LOCATION	L0002327	VOLUME	479899.157	3743379.948	440.09
LOCATION	L0002328	VOLUME	479899.286	3743383.604	440.05
LOCATION	L0002329	VOLUME	479899.415	3743387.259	440.01
LOCATION	L0002330	VOLUME	479899.543	3743390.914	439.97
LOCATION	L0002331	VOLUME	479899.672	3743394.570	439.94
LOCATION	L0002332	VOLUME	479899.801	3743398.225	439.90
LOCATION	L0002333	VOLUME	479899.929	3743401.880	439.86
LOCATION	L0002334	VOLUME	479900.058	3743405.536	439.83
LOCATION	L0002335	VOLUME	479900.187	3743409.191	439.82
LOCATION	L0002336	VOLUME	479900.315	3743412.846	439.82
LOCATION	L0002337	VOLUME	479900.444	3743416.502	439.81
LOCATION	L0002338	VOLUME	479900.573	3743420.157	439.81
LOCATION	L0002339	VOLUME	479900.702	3743423.812	439.80
LOCATION	L0002340	VOLUME	479900.830	3743427.468	439.80
LOCATION	L0002341	VOLUME	479900.959	3743431.123	439.79
LOCATION	L0002342	VOLUME	479901.088	3743434.778	439.79
LOCATION	L0002343	VOLUME	479901.216	3743438.434	439.80
LOCATION	L0002344	VOLUME	479901.345	3743442.089	439.82
LOCATION	L0002345	VOLUME	479901.474	3743445.744	439.84
LOCATION	L0002346	VOLUME	479901.602	3743449.400	439.86
LOCATION	L0002347	VOLUME	479901.731	3743453.055	439.88
LOCATION	L0002348	VOLUME	479901.860	3743456.710	439.90
LOCATION	L0002349	VOLUME	479901.988	3743460.366	439.92
LOCATION	L0002350	VOLUME	479902.117	3743464.021	439.94
LOCATION	L0002351	VOLUME	479902.246	3743467.676	439.95
LOCATION	L0002352	VOLUME	479902.374	3743471.332	439.93
LOCATION	L0002353	VOLUME	479902.503	3743474.987	439.92
LOCATION	L0002354	VOLUME	479902.632	3743478.642	439.91
LOCATION	L0002355	VOLUME	479902.761	3743482.298	439.89
LOCATION	L0002356	VOLUME	479902.889	3743485.953	439.88
LOCATION	L0002357	VOLUME	479903.018	3743489.608	439.87
LOCATION	L0002358	VOLUME	479903.147	3743493.264	439.86
LOCATION	L0002359	VOLUME	479903.275	3743496.919	439.84
LOCATION	L0002360	VOLUME	479903.404	3743500.574	439.83
LOCATION	L0002361	VOLUME	479903.533	3743504.230	439.82
LOCATION	L0002362	VOLUME	479903.661	3743507.885	439.82
LOCATION	L0002363	VOLUME	479903.790	3743511.540	439.81
LOCATION	L0002364	VOLUME	479903.919	3743515.196	439.80
LOCATION	L0002365	VOLUME	479904.047	3743518.851	439.79
LOCATION	L0002366	VOLUME	479904.176	3743522.506	439.78
LOCATION	L0002367	VOLUME	479904.305	3743526.162	439.77
LOCATION	L0002368	VOLUME	479904.434	3743529.817	439.77
LOCATION	L0002369	VOLUME	479904.562	3743533.472	439.76
LOCATION	L0002370	VOLUME	479904.691	3743537.128	439.75

LOCATION	L0002371	VOLUME	479904.820	3743540.783	439.75
LOCATION	L0002372	VOLUME	479904.948	3743544.438	439.74
LOCATION	L0002373	VOLUME	479905.077	3743548.094	439.74
LOCATION	L0002374	VOLUME	479905.206	3743551.749	439.73
LOCATION	L0002375	VOLUME	479905.334	3743555.404	439.73
LOCATION	L0002376	VOLUME	479905.463	3743559.060	439.72
LOCATION	L0002377	VOLUME	479905.592	3743562.715	439.72
LOCATION	L0002378	VOLUME	479905.720	3743566.371	439.71
LOCATION	L0002379	VOLUME	479905.849	3743570.026	439.71
LOCATION	L0002380	VOLUME	479905.978	3743573.681	439.71
**	End of LINE VOLUME Source ID = SLINE3				
LOCATION	STCK1	POINT	480051.620	3742829.628	439.470
**	DESCRSRC	Idle 1			
LOCATION	STCK2	POINT	480051.137	3742865.179	439.480
**	DESCRSRC	Idle 2			
LOCATION	STCK3	POINT	480050.469	3742899.287	439.530
**	DESCRSRC	Idle 3			
LOCATION	STCK4	POINT	480047.897	3742937.803	439.640
**	DESCRSRC	Idle 4			
**	Source Parameters **				
**	LINE VOLUME Source ID = SLINE1				
SRCPARAM	L0001848	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001849	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001850	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001851	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001852	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001853	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001854	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001855	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001856	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001857	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001858	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001859	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001860	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001861	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001862	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001863	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001864	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001865	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001866	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001867	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001868	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001869	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001870	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001871	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001872	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001873	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001874	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001875	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001876	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001877	0.0000000549	0.00	1.70	6.52

SRCPARAM	L0001980	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001981	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001982	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001983	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001984	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001985	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001986	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001987	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001988	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001989	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001990	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001991	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001992	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001993	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001994	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001995	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001996	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001997	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001998	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0001999	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0002000	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0002001	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0002002	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0002003	0.0000000549	0.00	1.70	6.52
SRCPARAM	L0002004	0.0000000549	0.00	1.70	6.52

**

 ** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0002162	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002163	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002164	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002165	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002166	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002167	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002168	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002169	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002170	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002171	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002172	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002173	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002174	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002175	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002176	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002177	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002178	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002179	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002180	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002181	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002182	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002183	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002184	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002185	0.00000001561	0.00	1.70	0.85

SRCPARAM	L0002186	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002187	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002188	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002189	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002190	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002191	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002192	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002193	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002194	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002195	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002196	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002197	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002198	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002199	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002200	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002201	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002202	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002203	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002204	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002205	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002206	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002207	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002208	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002209	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002210	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002211	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002212	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002213	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002214	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002215	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002216	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002217	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002218	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002219	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002220	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002221	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002222	0.00000001561	0.00	1.70	0.85
SRCPARAM	L0002223	0.00000001561	0.00	1.70	0.85

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**	LINE VOLUME Source ID = SLINE3				
SRCPARAM	L0002224	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002225	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002226	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002227	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002228	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002229	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002230	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002231	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002232	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002233	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002234	0.00000003134	0.00	1.70	0.85

SRCPARAM	L0002337	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002338	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002339	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002340	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002341	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002342	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002343	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002344	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002345	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002346	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002347	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002348	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002349	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002350	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002351	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002352	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002353	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002354	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002355	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002356	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002357	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002358	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002359	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002360	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002361	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002362	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002363	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002364	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002365	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002366	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002367	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002368	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002369	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002370	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002371	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002372	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002373	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002374	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002375	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002376	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002377	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002378	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002379	0.00000003134	0.00	1.70	0.85
SRCPARAM	L0002380	0.00000003134	0.00	1.70	0.85

**

SRCPARAM	STCK1	0.0000135	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000135	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000135	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000135	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDWID	STCK4	148.55	180.50	206.97	227.14	240.42	246.39
BUILDWID	STCK4	244.87	235.92	221.96	235.70	244.94	246.74
BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
XBADJ	STCK1	-72.00	-89.35	-103.99	-115.47	-123.44	-127.66
XBADJ	STCK1	-128.00	-124.45	-119.42	-142.59	-165.09	-182.58
XBADJ	STCK1	-194.52	-200.55	-200.48	-194.33	-182.27	-166.84
XBADJ	STCK1	-163.70	-155.59	-142.75	-125.57	-104.58	-80.41
XBADJ	STCK1	-53.79	-25.54	3.48	-5.97	-15.41	-24.39
XBADJ	STCK1	-32.63	-39.87	-45.91	-50.54	-53.65	-55.12
XBADJ	STCK2	-106.93	-122.60	-134.54	-142.39	-145.92	-145.02
XBADJ	STCK2	-139.71	-130.15	-118.94	-135.94	-152.48	-164.39
XBADJ	STCK2	-171.30	-173.01	-169.46	-160.76	-147.17	-131.29
XBADJ	STCK2	-128.77	-122.35	-112.20	-98.65	-82.09	-63.05
XBADJ	STCK2	-42.08	-19.84	3.00	-12.61	-28.02	-42.58
XBADJ	STCK2	-55.85	-67.41	-76.93	-84.11	-88.74	-90.67
XBADJ	STCK3	-140.40	-154.42	-163.74	-168.09	-167.34	-161.49
XBADJ	STCK3	-150.74	-135.41	-118.27	-129.36	-140.18	-146.75
XBADJ	STCK3	-148.86	-146.45	-139.58	-128.48	-113.47	-97.18
XBADJ	STCK3	-95.30	-90.52	-83.00	-72.95	-60.68	-46.57

XBADJ	STCK3	-31.05	-14.58	2.33	-19.20	-40.32	-60.22
XBADJ	STCK3	-78.28	-93.97	-106.81	-116.40	-122.45	-124.78
XBADJ	STCK4	-177.88	-189.73	-195.81	-195.94	-190.12	-178.52
XBADJ	STCK4	-161.50	-139.57	-115.70	-120.14	-124.60	-125.27
XBADJ	STCK4	-122.14	-115.29	-104.95	-91.41	-75.10	-58.67
XBADJ	STCK4	-57.82	-55.21	-50.93	-45.10	-37.90	-29.54
XBADJ	STCK4	-20.29	-10.42	-0.24	-28.41	-55.90	-81.70
XBADJ	STCK4	-105.01	-125.13	-141.44	-153.46	-160.82	-163.29
YBADJ	STCK1	68.31	74.84	79.09	80.95	80.34	77.29
YBADJ	STCK1	71.89	64.31	55.86	45.85	33.12	19.38
YBADJ	STCK1	5.05	-9.43	-23.63	-37.10	-49.45	-61.45
YBADJ	STCK1	-68.31	-74.84	-79.09	-80.95	-80.34	-77.29
YBADJ	STCK1	-71.89	-64.31	-55.86	-45.85	-33.12	-19.38
YBADJ	STCK1	-5.05	9.43	23.63	37.10	49.45	61.45
YBADJ	STCK2	61.66	62.23	60.90	57.73	52.80	46.26
YBADJ	STCK2	38.32	29.22	20.31	10.92	-0.12	-11.17
YBADJ	STCK2	-21.87	-31.91	-40.99	-48.81	-55.15	-60.97
YBADJ	STCK2	-61.66	-62.23	-60.90	-57.73	-52.80	-46.26
YBADJ	STCK2	-38.32	-29.22	-20.31	-10.92	0.12	11.17
YBADJ	STCK2	21.87	31.91	40.99	48.81	55.15	60.97
YBADJ	STCK3	55.08	49.93	43.27	35.29	26.24	16.39
YBADJ	STCK3	6.04	-4.49	-13.80	-22.55	-31.95	-40.37
YBADJ	STCK3	-47.57	-53.33	-57.46	-59.85	-60.42	-60.30
YBADJ	STCK3	-55.08	-49.93	-43.27	-35.29	-26.24	-16.39
YBADJ	STCK3	-6.04	4.49	13.80	22.55	31.95	40.37
YBADJ	STCK3	47.57	53.33	57.46	59.85	60.42	60.30
YBADJ	STCK4	45.86	34.35	21.79	8.57	-4.92	-18.25
YBADJ	STCK4	-31.03	-42.86	-52.31	-60.03	-67.26	-72.44
YBADJ	STCK4	-75.42	-76.11	-74.49	-70.60	-64.57	-57.73
YBADJ	STCK4	-45.86	-34.35	-21.79	-8.57	4.92	18.25
YBADJ	STCK4	31.03	42.86	52.31	60.03	67.26	72.44
YBADJ	STCK4	75.42	76.11	74.49	70.60	64.57	57.73

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19371 Redlands Ave East Industrial.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**
**

ME STARTING

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"
PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"
SURFDATA 3171 2010
UAIRDATA 3190 2010
SITEDATA 99999 2010
PROFBASE 442.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**
**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19371 Redlands Ave East Industrial.AD\PE00GALL.PLT" 31
SUMMFILE "19371 Redlands Ave East Industrial.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)
A Total of 6 Warning Message(s)
A Total of 0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	861	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	862	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	863	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	864	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1032	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	1032	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.2 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: 19371 Redlands Ave East Industrial.err
**File for Summary of Results: 19371 Redlands Ave East Industrial.sum

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - OY 2023 *** 17:16:58
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.13500E-04	480051.6	3742829.6	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.13500E-04	480051.1	3742865.2	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.13500E-04	480050.5	3742899.3	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.13500E-04	480047.9	3742937.8	439.6	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - OY 2023 *** 17:16:58
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001848	0	0.54900E-07	479894.1	3742773.0	440.3	0.00	1.70	6.52	YES	
L0001849	0	0.54900E-07	479897.7	3742772.6	440.2	0.00	1.70	6.52	YES	
L0001850	0	0.54900E-07	479901.3	3742772.3	440.2	0.00	1.70	6.52	YES	
L0001851	0	0.54900E-07	479905.0	3742771.9	440.2	0.00	1.70	6.52	YES	
L0001852	0	0.54900E-07	479908.6	3742771.6	440.1	0.00	1.70	6.52	YES	
L0001853	0	0.54900E-07	479912.3	3742771.2	440.1	0.00	1.70	6.52	YES	
L0001854	0	0.54900E-07	479915.9	3742770.9	440.1	0.00	1.70	6.52	YES	
L0001855	0	0.54900E-07	479919.5	3742770.3	440.1	0.00	1.70	6.52	YES	
L0001856	0	0.54900E-07	479923.0	3742769.1	440.1	0.00	1.70	6.52	YES	
L0001857	0	0.54900E-07	479926.4	3742767.9	440.0	0.00	1.70	6.52	YES	
L0001858	0	0.54900E-07	479929.9	3742766.7	440.0	0.00	1.70	6.52	YES	
L0001859	0	0.54900E-07	479933.5	3742766.5	440.0	0.00	1.70	6.52	YES	
L0001860	0	0.54900E-07	479937.1	3742766.6	440.0	0.00	1.70	6.52	YES	
L0001861	0	0.54900E-07	479940.8	3742766.6	440.0	0.00	1.70	6.52	YES	
L0001862	0	0.54900E-07	479944.5	3742766.6	439.9	0.00	1.70	6.52	YES	
L0001863	0	0.54900E-07	479948.1	3742766.7	439.9	0.00	1.70	6.52	YES	
L0001864	0	0.54900E-07	479951.8	3742766.7	439.9	0.00	1.70	6.52	YES	
L0001865	0	0.54900E-07	479955.4	3742766.7	439.9	0.00	1.70	6.52	YES	
L0001866	0	0.54900E-07	479959.1	3742766.8	439.9	0.00	1.70	6.52	YES	
L0001867	0	0.54900E-07	479962.7	3742766.8	439.9	0.00	1.70	6.52	YES	
L0001868	0	0.54900E-07	479966.4	3742766.8	439.9	0.00	1.70	6.52	YES	
L0001869	0	0.54900E-07	479970.1	3742766.9	439.9	0.00	1.70	6.52	YES	
L0001870	0	0.54900E-07	479973.7	3742766.9	439.9	0.00	1.70	6.52	YES	
L0001871	0	0.54900E-07	479977.4	3742766.9	439.9	0.00	1.70	6.52	YES	
L0001872	0	0.54900E-07	479981.0	3742767.0	439.9	0.00	1.70	6.52	YES	
L0001873	0	0.54900E-07	479984.7	3742767.0	439.9	0.00	1.70	6.52	YES	
L0001874	0	0.54900E-07	479988.3	3742767.0	439.8	0.00	1.70	6.52	YES	
L0001875	0	0.54900E-07	479992.0	3742767.1	439.8	0.00	1.70	6.52	YES	
L0001876	0	0.54900E-07	479995.7	3742767.1	439.8	0.00	1.70	6.52	YES	
L0001877	0	0.54900E-07	479999.3	3742767.1	439.8	0.00	1.70	6.52	YES	
L0001878	0	0.54900E-07	480003.0	3742767.2	439.8	0.00	1.70	6.52	YES	
L0001879	0	0.54900E-07	480006.6	3742767.2	439.8	0.00	1.70	6.52	YES	
L0001880	0	0.54900E-07	480010.3	3742767.2	439.8	0.00	1.70	6.52	YES	
L0001881	0	0.54900E-07	480014.0	3742767.3	439.7	0.00	1.70	6.52	YES	
L0001882	0	0.54900E-07	480017.6	3742767.3	439.7	0.00	1.70	6.52	YES	
L0001883	0	0.54900E-07	480021.3	3742767.3	439.7	0.00	1.70	6.52	YES	
L0001884	0	0.54900E-07	480024.9	3742767.4	439.7	0.00	1.70	6.52	YES	
L0001885	0	0.54900E-07	480028.6	3742767.4	439.7	0.00	1.70	6.52	YES	
L0001886	0	0.54900E-07	480032.2	3742767.5	439.7	0.00	1.70	6.52	YES	
L0001887	0	0.54900E-07	480035.9	3742767.5	439.7	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023

*** 08/17/21
 *** 17:16:58
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001888	0	0.54900E-07	480039.6	3742767.5	439.6	0.00	1.70	6.52	YES	
L0001889	0	0.54900E-07	480043.2	3742767.6	439.6	0.00	1.70	6.52	YES	
L0001890	0	0.54900E-07	480046.9	3742767.6	439.6	0.00	1.70	6.52	YES	
L0001891	0	0.54900E-07	480050.5	3742767.6	439.6	0.00	1.70	6.52	YES	
L0001892	0	0.54900E-07	480054.2	3742767.7	439.6	0.00	1.70	6.52	YES	
L0001893	0	0.54900E-07	480057.8	3742767.7	439.6	0.00	1.70	6.52	YES	
L0001894	0	0.54900E-07	480061.2	3742768.0	439.5	0.00	1.70	6.52	YES	
L0001895	0	0.54900E-07	480061.3	3742771.6	439.5	0.00	1.70	6.52	YES	
L0001896	0	0.54900E-07	480061.3	3742775.3	439.5	0.00	1.70	6.52	YES	
L0001897	0	0.54900E-07	480061.3	3742779.0	439.5	0.00	1.70	6.52	YES	
L0001898	0	0.54900E-07	480061.3	3742782.6	439.5	0.00	1.70	6.52	YES	
L0001899	0	0.54900E-07	480061.3	3742786.3	439.5	0.00	1.70	6.52	YES	
L0001900	0	0.54900E-07	480061.4	3742789.9	439.5	0.00	1.70	6.52	YES	
L0001901	0	0.54900E-07	480061.4	3742793.6	439.5	0.00	1.70	6.52	YES	
L0001902	0	0.54900E-07	480061.4	3742797.2	439.5	0.00	1.70	6.52	YES	
L0001903	0	0.54900E-07	480061.4	3742800.9	439.5	0.00	1.70	6.52	YES	
L0001904	0	0.54900E-07	480061.5	3742804.6	439.5	0.00	1.70	6.52	YES	
L0001905	0	0.54900E-07	480061.5	3742808.2	439.4	0.00	1.70	6.52	YES	
L0001906	0	0.54900E-07	480061.5	3742811.9	439.4	0.00	1.70	6.52	YES	
L0001907	0	0.54900E-07	480061.5	3742815.5	439.4	0.00	1.70	6.52	YES	
L0001908	0	0.54900E-07	480061.6	3742819.2	439.4	0.00	1.70	6.52	YES	
L0001909	0	0.54900E-07	480061.6	3742822.8	439.4	0.00	1.70	6.52	YES	
L0001910	0	0.54900E-07	480061.6	3742826.5	439.4	0.00	1.70	6.52	YES	
L0001911	0	0.54900E-07	480061.6	3742830.2	439.4	0.00	1.70	6.52	YES	
L0001912	0	0.54900E-07	480061.6	3742833.8	439.4	0.00	1.70	6.52	YES	
L0001913	0	0.54900E-07	480061.7	3742837.5	439.4	0.00	1.70	6.52	YES	
L0001914	0	0.54900E-07	480061.7	3742841.1	439.4	0.00	1.70	6.52	YES	
L0001915	0	0.54900E-07	480061.7	3742844.8	439.4	0.00	1.70	6.52	YES	
L0001916	0	0.54900E-07	480061.7	3742848.4	439.4	0.00	1.70	6.52	YES	
L0001917	0	0.54900E-07	480061.8	3742852.1	439.4	0.00	1.70	6.52	YES	
L0001918	0	0.54900E-07	480061.8	3742855.8	439.4	0.00	1.70	6.52	YES	
L0001919	0	0.54900E-07	480061.8	3742859.4	439.4	0.00	1.70	6.52	YES	
L0001920	0	0.54900E-07	480061.8	3742863.1	439.4	0.00	1.70	6.52	YES	
L0001921	0	0.54900E-07	480061.8	3742866.7	439.4	0.00	1.70	6.52	YES	
L0001922	0	0.54900E-07	480061.9	3742870.4	439.4	0.00	1.70	6.52	YES	
L0001923	0	0.54900E-07	480061.9	3742874.1	439.4	0.00	1.70	6.52	YES	
L0001924	0	0.54900E-07	480061.9	3742877.7	439.4	0.00	1.70	6.52	YES	
L0001925	0	0.54900E-07	480061.9	3742881.4	439.4	0.00	1.70	6.52	YES	
L0001926	0	0.54900E-07	480062.0	3742885.0	439.4	0.00	1.70	6.52	YES	
L0001927	0	0.54900E-07	480062.0	3742888.7	439.5	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001928	0	0.54900E-07	480062.0	3742892.3	439.5	0.00	1.70	6.52	YES	
L0001929	0	0.54900E-07	480062.0	3742896.0	439.5	0.00	1.70	6.52	YES	
L0001930	0	0.54900E-07	480062.1	3742899.7	439.5	0.00	1.70	6.52	YES	
L0001931	0	0.54900E-07	480062.1	3742903.3	439.5	0.00	1.70	6.52	YES	
L0001932	0	0.54900E-07	480062.1	3742907.0	439.5	0.00	1.70	6.52	YES	
L0001933	0	0.54900E-07	480062.1	3742910.6	439.5	0.00	1.70	6.52	YES	
L0001934	0	0.54900E-07	480062.1	3742914.3	439.5	0.00	1.70	6.52	YES	
L0001935	0	0.54900E-07	480062.2	3742917.9	439.5	0.00	1.70	6.52	YES	
L0001936	0	0.54900E-07	480062.2	3742921.6	439.5	0.00	1.70	6.52	YES	
L0001937	0	0.54900E-07	480062.2	3742925.3	439.5	0.00	1.70	6.52	YES	
L0001938	0	0.54900E-07	480062.2	3742928.9	439.5	0.00	1.70	6.52	YES	
L0001939	0	0.54900E-07	480062.3	3742932.6	439.6	0.00	1.70	6.52	YES	
L0001940	0	0.54900E-07	480062.3	3742936.2	439.6	0.00	1.70	6.52	YES	
L0001941	0	0.54900E-07	480062.3	3742939.9	439.6	0.00	1.70	6.52	YES	
L0001942	0	0.54900E-07	480062.3	3742943.5	439.6	0.00	1.70	6.52	YES	
L0001943	0	0.54900E-07	480062.3	3742947.2	439.6	0.00	1.70	6.52	YES	
L0001944	0	0.54900E-07	480062.4	3742950.9	439.6	0.00	1.70	6.52	YES	
L0001945	0	0.54900E-07	480062.4	3742954.5	439.6	0.00	1.70	6.52	YES	
L0001946	0	0.54900E-07	480062.4	3742958.2	439.6	0.00	1.70	6.52	YES	
L0001947	0	0.54900E-07	480062.4	3742961.8	439.6	0.00	1.70	6.52	YES	
L0001948	0	0.54900E-07	480062.5	3742965.5	439.6	0.00	1.70	6.52	YES	
L0001949	0	0.54900E-07	480062.5	3742969.1	439.6	0.00	1.70	6.52	YES	
L0001950	0	0.54900E-07	480062.5	3742972.8	439.7	0.00	1.70	6.52	YES	
L0001951	0	0.54900E-07	480062.5	3742976.5	439.7	0.00	1.70	6.52	YES	
L0001952	0	0.54900E-07	480062.6	3742980.1	439.7	0.00	1.70	6.52	YES	
L0001953	0	0.54900E-07	480062.6	3742983.8	439.7	0.00	1.70	6.52	YES	
L0001954	0	0.54900E-07	480062.6	3742987.4	439.7	0.00	1.70	6.52	YES	
L0001955	0	0.54900E-07	480062.6	3742991.1	439.7	0.00	1.70	6.52	YES	
L0001956	0	0.54900E-07	480062.6	3742994.8	439.7	0.00	1.70	6.52	YES	
L0001957	0	0.54900E-07	480062.7	3742998.4	439.7	0.00	1.70	6.52	YES	
L0001958	0	0.54900E-07	480062.7	3743002.1	439.7	0.00	1.70	6.52	YES	
L0001959	0	0.54900E-07	480061.7	3743004.8	439.8	0.00	1.70	6.52	YES	
L0001960	0	0.54900E-07	480058.1	3743004.8	439.8	0.00	1.70	6.52	YES	
L0001961	0	0.54900E-07	480054.4	3743004.8	439.8	0.00	1.70	6.52	YES	
L0001962	0	0.54900E-07	480050.8	3743004.8	439.8	0.00	1.70	6.52	YES	
L0001963	0	0.54900E-07	480047.1	3743004.7	439.8	0.00	1.70	6.52	YES	
L0001964	0	0.54900E-07	480043.4	3743004.7	439.8	0.00	1.70	6.52	YES	
L0001965	0	0.54900E-07	480039.8	3743004.7	439.8	0.00	1.70	6.52	YES	
L0001966	0	0.54900E-07	480036.1	3743004.7	439.8	0.00	1.70	6.52	YES	

L0001967 0 0.54900E-07 480032.5 3743004.7 439.9 0.00 1.70 6.52 YES

*** AERMOD - VERSION 21112 *** ** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** ** DPM Concentrations - OY 2023

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001968	0	0.54900E-07	480028.8	3743004.7	439.9	0.00	1.70	6.52	YES	
L0001969	0	0.54900E-07	480025.2	3743004.7	439.9	0.00	1.70	6.52	YES	
L0001970	0	0.54900E-07	480021.5	3743004.7	439.9	0.00	1.70	6.52	YES	
L0001971	0	0.54900E-07	480017.8	3743004.7	439.9	0.00	1.70	6.52	YES	
L0001972	0	0.54900E-07	480014.2	3743004.7	439.9	0.00	1.70	6.52	YES	
L0001973	0	0.54900E-07	480010.5	3743004.7	439.9	0.00	1.70	6.52	YES	
L0001974	0	0.54900E-07	480006.9	3743004.7	439.9	0.00	1.70	6.52	YES	
L0001975	0	0.54900E-07	480003.2	3743004.6	440.0	0.00	1.70	6.52	YES	
L0001976	0	0.54900E-07	479999.6	3743004.6	440.0	0.00	1.70	6.52	YES	
L0001977	0	0.54900E-07	479995.9	3743004.6	440.0	0.00	1.70	6.52	YES	
L0001978	0	0.54900E-07	479992.2	3743004.6	440.0	0.00	1.70	6.52	YES	
L0001979	0	0.54900E-07	479988.6	3743004.6	440.0	0.00	1.70	6.52	YES	
L0001980	0	0.54900E-07	479984.9	3743004.6	440.0	0.00	1.70	6.52	YES	
L0001981	0	0.54900E-07	479981.3	3743004.6	440.1	0.00	1.70	6.52	YES	
L0001982	0	0.54900E-07	479977.6	3743004.6	440.1	0.00	1.70	6.52	YES	
L0001983	0	0.54900E-07	479974.0	3743004.6	440.1	0.00	1.70	6.52	YES	
L0001984	0	0.54900E-07	479970.3	3743004.6	440.1	0.00	1.70	6.52	YES	
L0001985	0	0.54900E-07	479966.6	3743004.6	440.1	0.00	1.70	6.52	YES	
L0001986	0	0.54900E-07	479963.0	3743004.5	440.1	0.00	1.70	6.52	YES	
L0001987	0	0.54900E-07	479959.3	3743004.5	440.1	0.00	1.70	6.52	YES	
L0001988	0	0.54900E-07	479955.7	3743004.5	440.1	0.00	1.70	6.52	YES	
L0001989	0	0.54900E-07	479952.0	3743004.5	440.1	0.00	1.70	6.52	YES	
L0001990	0	0.54900E-07	479948.3	3743004.5	440.2	0.00	1.70	6.52	YES	
L0001991	0	0.54900E-07	479944.7	3743004.5	440.2	0.00	1.70	6.52	YES	
L0001992	0	0.54900E-07	479941.0	3743004.5	440.2	0.00	1.70	6.52	YES	
L0001993	0	0.54900E-07	479937.4	3743004.5	440.2	0.00	1.70	6.52	YES	
L0001994	0	0.54900E-07	479933.8	3743004.1	440.2	0.00	1.70	6.52	YES	
L0001995	0	0.54900E-07	479930.3	3743002.9	440.2	0.00	1.70	6.52	YES	
L0001996	0	0.54900E-07	479926.9	3743001.7	440.2	0.00	1.70	6.52	YES	
L0001997	0	0.54900E-07	479923.4	3743000.5	440.2	0.00	1.70	6.52	YES	
L0001998	0	0.54900E-07	479920.0	3742999.3	440.3	0.00	1.70	6.52	YES	
L0001999	0	0.54900E-07	479916.4	3742998.5	440.3	0.00	1.70	6.52	YES	
L0002000	0	0.54900E-07	479912.8	3742998.5	440.3	0.00	1.70	6.52	YES	
L0002001	0	0.54900E-07	479909.1	3742998.4	440.4	0.00	1.70	6.52	YES	
L0002002	0	0.54900E-07	479905.5	3742998.4	440.4	0.00	1.70	6.52	YES	
L0002003	0	0.54900E-07	479901.8	3742998.4	440.4	0.00	1.70	6.52	YES	

L0002004	0	0.54900E-07	479898.1	3742998.3	440.5	0.00	1.70	6.52	YES
L0002162	0	0.15610E-07	479887.3	3742774.4	440.4	0.00	1.70	0.85	YES
L0002163	0	0.15610E-07	479887.3	3742778.1	440.4	0.00	1.70	0.85	YES
L0002164	0	0.15610E-07	479887.3	3742781.8	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002165	0	0.15610E-07	479887.3	3742785.4	440.4	0.00	1.70	0.85	YES	
L0002166	0	0.15610E-07	479887.4	3742789.1	440.4	0.00	1.70	0.85	YES	
L0002167	0	0.15610E-07	479887.4	3742792.7	440.4	0.00	1.70	0.85	YES	
L0002168	0	0.15610E-07	479887.4	3742796.4	440.4	0.00	1.70	0.85	YES	
L0002169	0	0.15610E-07	479887.4	3742800.0	440.4	0.00	1.70	0.85	YES	
L0002170	0	0.15610E-07	479887.5	3742803.7	440.4	0.00	1.70	0.85	YES	
L0002171	0	0.15610E-07	479887.5	3742807.4	440.4	0.00	1.70	0.85	YES	
L0002172	0	0.15610E-07	479887.5	3742811.0	440.5	0.00	1.70	0.85	YES	
L0002173	0	0.15610E-07	479887.5	3742814.7	440.5	0.00	1.70	0.85	YES	
L0002174	0	0.15610E-07	479887.5	3742818.3	440.5	0.00	1.70	0.85	YES	
L0002175	0	0.15610E-07	479887.6	3742822.0	440.5	0.00	1.70	0.85	YES	
L0002176	0	0.15610E-07	479887.6	3742825.6	440.5	0.00	1.70	0.85	YES	
L0002177	0	0.15610E-07	479887.6	3742829.3	440.5	0.00	1.70	0.85	YES	
L0002178	0	0.15610E-07	479887.6	3742833.0	440.5	0.00	1.70	0.85	YES	
L0002179	0	0.15610E-07	479887.7	3742836.6	440.5	0.00	1.70	0.85	YES	
L0002180	0	0.15610E-07	479887.7	3742840.3	440.5	0.00	1.70	0.85	YES	
L0002181	0	0.15610E-07	479887.7	3742843.9	440.5	0.00	1.70	0.85	YES	
L0002182	0	0.15610E-07	479887.7	3742847.6	440.5	0.00	1.70	0.85	YES	
L0002183	0	0.15610E-07	479887.8	3742851.2	440.5	0.00	1.70	0.85	YES	
L0002184	0	0.15610E-07	479887.8	3742854.9	440.5	0.00	1.70	0.85	YES	
L0002185	0	0.15610E-07	479887.8	3742858.6	440.5	0.00	1.70	0.85	YES	
L0002186	0	0.15610E-07	479887.8	3742862.2	440.5	0.00	1.70	0.85	YES	
L0002187	0	0.15610E-07	479887.8	3742865.9	440.5	0.00	1.70	0.85	YES	
L0002188	0	0.15610E-07	479887.9	3742869.5	440.5	0.00	1.70	0.85	YES	
L0002189	0	0.15610E-07	479887.9	3742873.2	440.5	0.00	1.70	0.85	YES	
L0002190	0	0.15610E-07	479887.9	3742876.9	440.5	0.00	1.70	0.85	YES	
L0002191	0	0.15610E-07	479887.9	3742880.5	440.5	0.00	1.70	0.85	YES	
L0002192	0	0.15610E-07	479888.0	3742884.2	440.5	0.00	1.70	0.85	YES	
L0002193	0	0.15610E-07	479888.0	3742887.8	440.5	0.00	1.70	0.85	YES	
L0002194	0	0.15610E-07	479888.0	3742891.5	440.5	0.00	1.70	0.85	YES	
L0002195	0	0.15610E-07	479888.0	3742895.1	440.5	0.00	1.70	0.85	YES	
L0002196	0	0.15610E-07	479888.0	3742898.8	440.5	0.00	1.70	0.85	YES	
L0002197	0	0.15610E-07	479888.1	3742902.5	440.5	0.00	1.70	0.85	YES	

L0002198	0	0.15610E-07	479888.1	3742906.1	440.4	0.00	1.70	0.85	YES
L0002199	0	0.15610E-07	479888.1	3742909.8	440.4	0.00	1.70	0.85	YES
L0002200	0	0.15610E-07	479888.1	3742913.4	440.4	0.00	1.70	0.85	YES
L0002201	0	0.15610E-07	479888.2	3742917.1	440.4	0.00	1.70	0.85	YES
L0002202	0	0.15610E-07	479888.2	3742920.7	440.4	0.00	1.70	0.85	YES
L0002203	0	0.15610E-07	479888.2	3742924.4	440.4	0.00	1.70	0.85	YES
L0002204	0	0.15610E-07	479888.2	3742928.1	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002205	0	0.15610E-07	479888.2	3742931.7	440.5	0.00	1.70	0.85	YES	
L0002206	0	0.15610E-07	479888.3	3742935.4	440.5	0.00	1.70	0.85	YES	
L0002207	0	0.15610E-07	479888.3	3742939.0	440.5	0.00	1.70	0.85	YES	
L0002208	0	0.15610E-07	479888.3	3742942.7	440.5	0.00	1.70	0.85	YES	
L0002209	0	0.15610E-07	479888.3	3742946.3	440.5	0.00	1.70	0.85	YES	
L0002210	0	0.15610E-07	479888.4	3742950.0	440.5	0.00	1.70	0.85	YES	
L0002211	0	0.15610E-07	479888.4	3742953.7	440.5	0.00	1.70	0.85	YES	
L0002212	0	0.15610E-07	479888.4	3742957.3	440.5	0.00	1.70	0.85	YES	
L0002213	0	0.15610E-07	479888.4	3742961.0	440.5	0.00	1.70	0.85	YES	
L0002214	0	0.15610E-07	479888.4	3742964.6	440.5	0.00	1.70	0.85	YES	
L0002215	0	0.15610E-07	479888.5	3742968.3	440.5	0.00	1.70	0.85	YES	
L0002216	0	0.15610E-07	479888.5	3742971.9	440.5	0.00	1.70	0.85	YES	
L0002217	0	0.15610E-07	479888.5	3742975.6	440.5	0.00	1.70	0.85	YES	
L0002218	0	0.15610E-07	479888.5	3742979.3	440.5	0.00	1.70	0.85	YES	
L0002219	0	0.15610E-07	479888.6	3742982.9	440.5	0.00	1.70	0.85	YES	
L0002220	0	0.15610E-07	479888.6	3742986.6	440.6	0.00	1.70	0.85	YES	
L0002221	0	0.15610E-07	479888.6	3742990.2	440.6	0.00	1.70	0.85	YES	
L0002222	0	0.15610E-07	479888.6	3742993.9	440.6	0.00	1.70	0.85	YES	
L0002223	0	0.15610E-07	479888.6	3742997.6	440.6	0.00	1.70	0.85	YES	
L0002224	0	0.31340E-07	479888.7	3743003.9	440.6	0.00	1.70	0.85	YES	
L0002225	0	0.31340E-07	479888.7	3743007.6	440.6	0.00	1.70	0.85	YES	
L0002226	0	0.31340E-07	479888.8	3743011.2	440.6	0.00	1.70	0.85	YES	
L0002227	0	0.31340E-07	479888.8	3743014.9	440.6	0.00	1.70	0.85	YES	
L0002228	0	0.31340E-07	479888.9	3743018.5	440.6	0.00	1.70	0.85	YES	
L0002229	0	0.31340E-07	479888.9	3743022.2	440.7	0.00	1.70	0.85	YES	
L0002230	0	0.31340E-07	479889.0	3743025.9	440.7	0.00	1.70	0.85	YES	
L0002231	0	0.31340E-07	479889.1	3743029.5	440.7	0.00	1.70	0.85	YES	
L0002232	0	0.31340E-07	479889.1	3743033.2	440.7	0.00	1.70	0.85	YES	
L0002233	0	0.31340E-07	479889.2	3743036.8	440.7	0.00	1.70	0.85	YES	
L0002234	0	0.31340E-07	479889.2	3743040.5	440.7	0.00	1.70	0.85	YES	

L0002272	0	0.31340E-07	479891.3	3743179.5	440.9	0.00	1.70	0.85	YES
L0002273	0	0.31340E-07	479891.4	3743183.1	440.9	0.00	1.70	0.85	YES
L0002274	0	0.31340E-07	479891.5	3743186.8	440.9	0.00	1.70	0.85	YES
L0002275	0	0.31340E-07	479891.5	3743190.4	440.9	0.00	1.70	0.85	YES
L0002276	0	0.31340E-07	479891.6	3743194.1	440.8	0.00	1.70	0.85	YES
L0002277	0	0.31340E-07	479891.6	3743197.7	440.8	0.00	1.70	0.85	YES
L0002278	0	0.31340E-07	479891.7	3743201.4	440.8	0.00	1.70	0.85	YES
L0002279	0	0.31340E-07	479891.7	3743205.1	440.8	0.00	1.70	0.85	YES
L0002280	0	0.31340E-07	479891.8	3743208.7	440.8	0.00	1.70	0.85	YES
L0002281	0	0.31340E-07	479891.8	3743212.4	440.8	0.00	1.70	0.85	YES
L0002282	0	0.31340E-07	479891.9	3743216.0	440.8	0.00	1.70	0.85	YES
L0002283	0	0.31340E-07	479892.0	3743219.7	440.8	0.00	1.70	0.85	YES
L0002284	0	0.31340E-07	479892.0	3743223.3	440.8	0.00	1.70	0.85	YES

*** AERMOT - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002285	0	0.31340E-07	479892.1	3743227.0	440.8	0.00	1.70	0.85	YES	
L0002286	0	0.31340E-07	479892.1	3743230.7	440.8	0.00	1.70	0.85	YES	
L0002287	0	0.31340E-07	479892.2	3743234.3	440.8	0.00	1.70	0.85	YES	
L0002288	0	0.31340E-07	479892.2	3743238.0	440.8	0.00	1.70	0.85	YES	
L0002289	0	0.31340E-07	479892.3	3743241.6	440.8	0.00	1.70	0.85	YES	
L0002290	0	0.31340E-07	479892.3	3743245.3	440.8	0.00	1.70	0.85	YES	
L0002291	0	0.31340E-07	479892.4	3743248.9	440.8	0.00	1.70	0.85	YES	
L0002292	0	0.31340E-07	479892.5	3743252.6	440.7	0.00	1.70	0.85	YES	
L0002293	0	0.31340E-07	479892.5	3743256.3	440.7	0.00	1.70	0.85	YES	
L0002294	0	0.31340E-07	479892.6	3743259.9	440.7	0.00	1.70	0.85	YES	
L0002295	0	0.31340E-07	479892.6	3743263.6	440.7	0.00	1.70	0.85	YES	
L0002296	0	0.31340E-07	479892.7	3743267.2	440.7	0.00	1.70	0.85	YES	
L0002297	0	0.31340E-07	479892.7	3743270.9	440.7	0.00	1.70	0.85	YES	
L0002298	0	0.31340E-07	479892.8	3743274.5	440.7	0.00	1.70	0.85	YES	
L0002299	0	0.31340E-07	479892.9	3743278.2	440.7	0.00	1.70	0.85	YES	
L0002300	0	0.31340E-07	479892.9	3743281.9	440.6	0.00	1.70	0.85	YES	
L0002301	0	0.31340E-07	479893.0	3743285.5	440.6	0.00	1.70	0.85	YES	
L0002302	0	0.31340E-07	479893.0	3743289.2	440.6	0.00	1.70	0.85	YES	
L0002303	0	0.31340E-07	479893.1	3743292.8	440.6	0.00	1.70	0.85	YES	
L0002304	0	0.31340E-07	479893.1	3743296.5	440.6	0.00	1.70	0.85	YES	
L0002305	0	0.31340E-07	479893.2	3743300.1	440.6	0.00	1.70	0.85	YES	
L0002306	0	0.31340E-07	479893.2	3743303.8	440.6	0.00	1.70	0.85	YES	
L0002307	0	0.31340E-07	479893.3	3743307.5	440.6	0.00	1.70	0.85	YES	
L0002308	0	0.31340E-07	479893.4	3743311.1	440.6	0.00	1.70	0.85	YES	

L0002309	0	0.31340E-07	479893.4	3743314.8	440.5	0.00	1.70	0.85	YES
L0002310	0	0.31340E-07	479893.5	3743318.4	440.5	0.00	1.70	0.85	YES
L0002311	0	0.31340E-07	479893.5	3743322.1	440.5	0.00	1.70	0.85	YES
L0002312	0	0.31340E-07	479893.6	3743325.7	440.5	0.00	1.70	0.85	YES
L0002313	0	0.31340E-07	479893.6	3743329.4	440.5	0.00	1.70	0.85	YES
L0002314	0	0.31340E-07	479893.7	3743333.1	440.4	0.00	1.70	0.85	YES
L0002315	0	0.31340E-07	479893.7	3743336.7	440.4	0.00	1.70	0.85	YES
L0002316	0	0.31340E-07	479893.8	3743340.4	440.4	0.00	1.70	0.85	YES
L0002317	0	0.31340E-07	479894.4	3743344.0	440.4	0.00	1.70	0.85	YES
L0002318	0	0.31340E-07	479895.4	3743347.5	440.4	0.00	1.70	0.85	YES
L0002319	0	0.31340E-07	479896.4	3743351.0	440.3	0.00	1.70	0.85	YES
L0002320	0	0.31340E-07	479897.5	3743354.5	440.3	0.00	1.70	0.85	YES
L0002321	0	0.31340E-07	479898.4	3743358.0	440.3	0.00	1.70	0.85	YES
L0002322	0	0.31340E-07	479898.5	3743361.7	440.2	0.00	1.70	0.85	YES
L0002323	0	0.31340E-07	479898.6	3743365.3	440.2	0.00	1.70	0.85	YES
L0002324	0	0.31340E-07	479898.8	3743369.0	440.2	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002325	0	0.31340E-07	479898.9	3743372.6	440.2	0.00	1.70	0.85	YES	
L0002326	0	0.31340E-07	479899.0	3743376.3	440.1	0.00	1.70	0.85	YES	
L0002327	0	0.31340E-07	479899.2	3743379.9	440.1	0.00	1.70	0.85	YES	
L0002328	0	0.31340E-07	479899.3	3743383.6	440.1	0.00	1.70	0.85	YES	
L0002329	0	0.31340E-07	479899.4	3743387.3	440.0	0.00	1.70	0.85	YES	
L0002330	0	0.31340E-07	479899.5	3743390.9	440.0	0.00	1.70	0.85	YES	
L0002331	0	0.31340E-07	479899.7	3743394.6	439.9	0.00	1.70	0.85	YES	
L0002332	0	0.31340E-07	479899.8	3743398.2	439.9	0.00	1.70	0.85	YES	
L0002333	0	0.31340E-07	479899.9	3743401.9	439.9	0.00	1.70	0.85	YES	
L0002334	0	0.31340E-07	479900.1	3743405.5	439.8	0.00	1.70	0.85	YES	
L0002335	0	0.31340E-07	479900.2	3743409.2	439.8	0.00	1.70	0.85	YES	
L0002336	0	0.31340E-07	479900.3	3743412.8	439.8	0.00	1.70	0.85	YES	
L0002337	0	0.31340E-07	479900.4	3743416.5	439.8	0.00	1.70	0.85	YES	
L0002338	0	0.31340E-07	479900.6	3743420.2	439.8	0.00	1.70	0.85	YES	
L0002339	0	0.31340E-07	479900.7	3743423.8	439.8	0.00	1.70	0.85	YES	
L0002340	0	0.31340E-07	479900.8	3743427.5	439.8	0.00	1.70	0.85	YES	
L0002341	0	0.31340E-07	479901.0	3743431.1	439.8	0.00	1.70	0.85	YES	
L0002342	0	0.31340E-07	479901.1	3743434.8	439.8	0.00	1.70	0.85	YES	
L0002343	0	0.31340E-07	479901.2	3743438.4	439.8	0.00	1.70	0.85	YES	
L0002344	0	0.31340E-07	479901.3	3743442.1	439.8	0.00	1.70	0.85	YES	
L0002345	0	0.31340E-07	479901.5	3743445.7	439.8	0.00	1.70	0.85	YES	

L0002346	0	0.31340E-07	479901.6	3743449.4	439.9	0.00	1.70	0.85	YES
L0002347	0	0.31340E-07	479901.7	3743453.1	439.9	0.00	1.70	0.85	YES
L0002348	0	0.31340E-07	479901.9	3743456.7	439.9	0.00	1.70	0.85	YES
L0002349	0	0.31340E-07	479902.0	3743460.4	439.9	0.00	1.70	0.85	YES
L0002350	0	0.31340E-07	479902.1	3743464.0	439.9	0.00	1.70	0.85	YES
L0002351	0	0.31340E-07	479902.2	3743467.7	439.9	0.00	1.70	0.85	YES
L0002352	0	0.31340E-07	479902.4	3743471.3	439.9	0.00	1.70	0.85	YES
L0002353	0	0.31340E-07	479902.5	3743475.0	439.9	0.00	1.70	0.85	YES
L0002354	0	0.31340E-07	479902.6	3743478.6	439.9	0.00	1.70	0.85	YES
L0002355	0	0.31340E-07	479902.8	3743482.3	439.9	0.00	1.70	0.85	YES
L0002356	0	0.31340E-07	479902.9	3743486.0	439.9	0.00	1.70	0.85	YES
L0002357	0	0.31340E-07	479903.0	3743489.6	439.9	0.00	1.70	0.85	YES
L0002358	0	0.31340E-07	479903.1	3743493.3	439.9	0.00	1.70	0.85	YES
L0002359	0	0.31340E-07	479903.3	3743496.9	439.8	0.00	1.70	0.85	YES
L0002360	0	0.31340E-07	479903.4	3743500.6	439.8	0.00	1.70	0.85	YES
L0002361	0	0.31340E-07	479903.5	3743504.2	439.8	0.00	1.70	0.85	YES
L0002362	0	0.31340E-07	479903.7	3743507.9	439.8	0.00	1.70	0.85	YES
L0002363	0	0.31340E-07	479903.8	3743511.5	439.8	0.00	1.70	0.85	YES
L0002364	0	0.31340E-07	479903.9	3743515.2	439.8	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0002365	0	0.31340E-07	479904.0	3743518.9	439.8	0.00	1.70	0.85	YES	
L0002366	0	0.31340E-07	479904.2	3743522.5	439.8	0.00	1.70	0.85	YES	
L0002367	0	0.31340E-07	479904.3	3743526.2	439.8	0.00	1.70	0.85	YES	
L0002368	0	0.31340E-07	479904.4	3743529.8	439.8	0.00	1.70	0.85	YES	
L0002369	0	0.31340E-07	479904.6	3743533.5	439.8	0.00	1.70	0.85	YES	
L0002370	0	0.31340E-07	479904.7	3743537.1	439.8	0.00	1.70	0.85	YES	
L0002371	0	0.31340E-07	479904.8	3743540.8	439.8	0.00	1.70	0.85	YES	
L0002372	0	0.31340E-07	479904.9	3743544.4	439.7	0.00	1.70	0.85	YES	
L0002373	0	0.31340E-07	479905.1	3743548.1	439.7	0.00	1.70	0.85	YES	
L0002374	0	0.31340E-07	479905.2	3743551.7	439.7	0.00	1.70	0.85	YES	
L0002375	0	0.31340E-07	479905.3	3743555.4	439.7	0.00	1.70	0.85	YES	
L0002376	0	0.31340E-07	479905.5	3743559.1	439.7	0.00	1.70	0.85	YES	
L0002377	0	0.31340E-07	479905.6	3743562.7	439.7	0.00	1.70	0.85	YES	
L0002378	0	0.31340E-07	479905.7	3743566.4	439.7	0.00	1.70	0.85	YES	
L0002379	0	0.31340E-07	479905.8	3743570.0	439.7	0.00	1.70	0.85	YES	
L0002380	0	0.31340E-07	479906.0	3743573.7	439.7	0.00	1.70	0.85	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
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ALL	L0001848	,	L0001849	,	L0001850	,	L0001851	,	L0001852	,	L0001853	,	L0001854	,	L0001855	,
	L0001856	,	L0001857	,	L0001858	,	L0001859	,	L0001860	,	L0001861	,	L0001862	,	L0001863	,
	L0001864	,	L0001865	,	L0001866	,	L0001867	,	L0001868	,	L0001869	,	L0001870	,	L0001871	,
	L0001872	,	L0001873	,	L0001874	,	L0001875	,	L0001876	,	L0001877	,	L0001878	,	L0001879	,
	L0001880	,	L0001881	,	L0001882	,	L0001883	,	L0001884	,	L0001885	,	L0001886	,	L0001887	,
	L0001888	,	L0001889	,	L0001890	,	L0001891	,	L0001892	,	L0001893	,	L0001894	,	L0001895	,
	L0001896	,	L0001897	,	L0001898	,	L0001899	,	L0001900	,	L0001901	,	L0001902	,	L0001903	,
	L0001904	,	L0001905	,	L0001906	,	L0001907	,	L0001908	,	L0001909	,	L0001910	,	L0001911	,
	L0001912	,	L0001913	,	L0001914	,	L0001915	,	L0001916	,	L0001917	,	L0001918	,	L0001919	,
	L0001920	,	L0001921	,	L0001922	,	L0001923	,	L0001924	,	L0001925	,	L0001926	,	L0001927	,
	L0001928	,	L0001929	,	L0001930	,	L0001931	,	L0001932	,	L0001933	,	L0001934	,	L0001935	,
	L0001936	,	L0001937	,	L0001938	,	L0001939	,	L0001940	,	L0001941	,	L0001942	,	L0001943	,
	L0001944	,	L0001945	,	L0001946	,	L0001947	,	L0001948	,	L0001949	,	L0001950	,	L0001951	,
	L0001952	,	L0001953	,	L0001954	,	L0001955	,	L0001956	,	L0001957	,	L0001958	,	L0001959	,
	L0001960	,	L0001961	,	L0001962	,	L0001963	,	L0001964	,	L0001965	,	L0001966	,	L0001967	,
	L0001968	,	L0001969	,	L0001970	,	L0001971	,	L0001972	,	L0001973	,	L0001974	,	L0001975	,
	L0001976	,	L0001977	,	L0001978	,	L0001979	,	L0001980	,	L0001981	,	L0001982	,	L0001983	,
	L0001984	,	L0001985	,	L0001986	,	L0001987	,	L0001988	,	L0001989	,	L0001990	,	L0001991	,
	L0001992	,	L0001993	,	L0001994	,	L0001995	,	L0001996	,	L0001997	,	L0001998	,	L0001999	,
	L0002000	,	L0002001	,	L0002002	,	L0002003	,	L0002004	,	L0002162	,	L0002163	,	L0002164	,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
-----	-----	-----	-----	-----	-----	-----	-----	-----							
L0002165	,	L0002166	,	L0002167	,	L0002168	,	L0002169	,	L0002170	,	L0002171	,	L0002172	,
L0002173	,	L0002174	,	L0002175	,	L0002176	,	L0002177	,	L0002178	,	L0002179	,	L0002180	,
L0002181	,	L0002182	,	L0002183	,	L0002184	,	L0002185	,	L0002186	,	L0002187	,	L0002188	,
L0002189	,	L0002190	,	L0002191	,	L0002192	,	L0002193	,	L0002194	,	L0002195	,	L0002196	,
L0002197	,	L0002198	,	L0002199	,	L0002200	,	L0002201	,	L0002202	,	L0002203	,	L0002204	,
L0002205	,	L0002206	,	L0002207	,	L0002208	,	L0002209	,	L0002210	,	L0002211	,	L0002212	,
L0002213	,	L0002214	,	L0002215	,	L0002216	,	L0002217	,	L0002218	,	L0002219	,	L0002220	,
L0002221	,	L0002222	,	L0002223	,	L0002224	,	L0002225	,	L0002226	,	L0002227	,	L0002228	,
L0002229	,	L0002230	,	L0002231	,	L0002232	,	L0002233	,	L0002234	,	L0002235	,	L0002236	,
L0002237	,	L0002238	,	L0002239	,	L0002240	,	L0002241	,	L0002242	,	L0002243	,	L0002244	,
L0002245	,	L0002246	,	L0002247	,	L0002248	,	L0002249	,	L0002250	,	L0002251	,	L0002252	,
L0002253	,	L0002254	,	L0002255	,	L0002256	,	L0002257	,	L0002258	,	L0002259	,	L0002260	,
L0002261	,	L0002262	,	L0002263	,	L0002264	,	L0002265	,	L0002266	,	L0002267	,	L0002268	,
L0002269	,	L0002270	,	L0002271	,	L0002272	,	L0002273	,	L0002274	,	L0002275	,	L0002276	,
L0002277	,	L0002278	,	L0002279	,	L0002280	,	L0002281	,	L0002282	,	L0002283	,	L0002284	,
L0002285	,	L0002286	,	L0002287	,	L0002288	,	L0002289	,	L0002290	,	L0002291	,	L0002292	,
L0002293	,	L0002294	,	L0002295	,	L0002296	,	L0002297	,	L0002298	,	L0002299	,	L0002300	,
L0002301	,	L0002302	,	L0002303	,	L0002304	,	L0002305	,	L0002306	,	L0002307	,	L0002308	,
L0002309	,	L0002310	,	L0002311	,	L0002312	,	L0002313	,	L0002314	,	L0002315	,	L0002316	,
L0002317	,	L0002318	,	L0002319	,	L0002320	,	L0002321	,	L0002322	,	L0002323	,	L0002324	,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
-----	-----														
L0002325	,	L0002326	,	L0002327	,	L0002328	,	L0002329	,	L0002330	,	L0002331	,	L0002332	,
L0002333	,	L0002334	,	L0002335	,	L0002336	,	L0002337	,	L0002338	,	L0002339	,	L0002340	,
L0002341	,	L0002342	,	L0002343	,	L0002344	,	L0002345	,	L0002346	,	L0002347	,	L0002348	,
L0002349	,	L0002350	,	L0002351	,	L0002352	,	L0002353	,	L0002354	,	L0002355	,	L0002356	,
L0002357	,	L0002358	,	L0002359	,	L0002360	,	L0002361	,	L0002362	,	L0002363	,	L0002364	,
L0002365	,	L0002366	,	L0002367	,	L0002368	,	L0002369	,	L0002370	,	L0002371	,	L0002372	,
L0002373	,	L0002374	,	L0002375	,	L0002376	,	L0002377	,	L0002378	,	L0002379	,	L0002380	,
STCK1	,	STCK2	,	STCK3	,	STCK4	,		,		,		,		,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs															
-----	-----	-----															
L0001855	2189641.	L0001848	,	L0001849	,	L0001850	,	L0001851	,	L0001852	,	L0001853	,	L0001854	,		
	,		,		,		,		,		,		,		,		
		L0001856	,	L0001857	,	L0001858	,	L0001859	,	L0001860	,	L0001861	,	L0001862	,	L0001863	,
		L0001864	,	L0001865	,	L0001866	,	L0001867	,	L0001868	,	L0001869	,	L0001870	,	L0001871	,
		L0001872	,	L0001873	,	L0001874	,	L0001875	,	L0001876	,	L0001877	,	L0001878	,	L0001879	,
		L0001880	,	L0001881	,	L0001882	,	L0001883	,	L0001884	,	L0001885	,	L0001886	,	L0001887	,

L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 ,
L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 ,
L0002373 , L0002374 , L0002375 , L0002376 , L0002377 , L0002378 , L0002379 , L0002380 ,
STCK1 , STCK2 , STCK3 , STCK4 ,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-72.0	68.3	2	14.0	180.5	244.9	-89.3	74.8
3	14.0	207.0	246.7	-104.0	79.1	4	14.0	227.1	241.0	-115.5	81.0
5	14.0	240.4	228.0	-123.4	80.3	6	14.0	246.4	208.1	-127.7	77.3
7	14.0	244.9	181.8	-128.0	71.9	8	14.0	235.9	150.0	-124.5	64.3
9	14.0	222.0	115.9	-119.4	55.9	10	14.0	235.7	148.6	-142.6	45.8
11	14.0	244.9	180.5	-165.1	33.1	12	14.0	246.7	207.0	-182.6	19.4
13	14.0	241.0	227.1	-194.5	5.0	14	14.0	228.0	240.4	-200.6	-9.4
15	14.0	208.1	246.4	-200.5	-23.6	16	14.0	181.8	244.9	-194.3	-37.1
17	14.0	150.0	235.9	-182.3	-49.4	18	14.0	115.9	222.0	-166.8	-61.4
19	14.0	148.6	235.7	-163.7	-68.3	20	14.0	180.5	244.9	-155.6	-74.8
21	14.0	207.0	246.7	-142.8	-79.1	22	14.0	227.1	241.0	-125.6	-81.0
23	14.0	240.4	228.0	-104.6	-80.3	24	14.0	246.4	208.1	-80.4	-77.3
25	14.0	244.9	181.8	-53.8	-71.9	26	14.0	235.9	150.0	-25.5	-64.3
27	14.0	222.0	115.9	3.5	-55.9	28	14.0	235.7	148.6	-6.0	-45.8
29	14.0	244.9	180.5	-15.4	-33.1	30	14.0	246.7	207.0	-24.4	-19.4
31	14.0	241.0	227.1	-32.6	-5.0	32	14.0	228.0	240.4	-39.9	9.4
33	14.0	208.1	246.4	-45.9	23.6	34	14.0	181.8	244.9	-50.5	37.1
35	14.0	150.0	235.9	-53.6	49.4	36	14.0	115.9	222.0	-55.1	61.4

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-106.9	61.7	2	14.0	180.5	244.9	-122.6	62.2
3	14.0	207.0	246.7	-134.5	60.9	4	14.0	227.1	241.0	-142.4	57.7
5	14.0	240.4	228.0	-145.9	52.8	6	14.0	246.4	208.1	-145.0	46.3
7	14.0	244.9	181.8	-139.7	38.3	8	14.0	235.9	150.0	-130.2	29.2
9	14.0	222.0	115.9	-118.9	20.3	10	14.0	235.7	148.6	-135.9	10.9
11	14.0	244.9	180.5	-152.5	-0.1	12	14.0	246.7	207.0	-164.4	-11.2
13	14.0	241.0	227.1	-171.3	-21.9	14	14.0	228.0	240.4	-173.0	-31.9
15	14.0	208.1	246.4	-169.5	-41.0	16	14.0	181.8	244.9	-160.8	-48.8
17	14.0	150.0	235.9	-147.2	-55.1	18	14.0	115.9	222.0	-131.3	-61.0
19	14.0	148.6	235.7	-128.8	-61.7	20	14.0	180.5	244.9	-122.3	-62.2

21	14.0,	207.0,	246.7,	-112.2,	-60.9,	22	14.0,	227.1,	241.0,	-98.6,	-57.7,
23	14.0,	240.4,	228.0,	-82.1,	-52.8,	24	14.0,	246.4,	208.1,	-63.0,	-46.3,
25	14.0,	244.9,	181.8,	-42.1,	-38.3,	26	14.0,	235.9,	150.0,	-19.8,	-29.2,
27	14.0,	222.0,	115.9,	3.0,	-20.3,	28	14.0,	235.7,	148.6,	-12.6,	-10.9,
29	14.0,	244.9,	180.5,	-28.0,	0.1,	30	14.0,	246.7,	207.0,	-42.6,	11.2,
31	14.0,	241.0,	227.1,	-55.8,	21.9,	32	14.0,	228.0,	240.4,	-67.4,	31.9,
33	14.0,	208.1,	246.4,	-76.9,	41.0,	34	14.0,	181.8,	244.9,	-84.1,	48.8,
35	14.0,	150.0,	235.9,	-88.7,	55.1,	36	14.0,	115.9,	222.0,	-90.7,	61.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-140.4,	55.1,	2	14.0,	180.5,	244.9,	-154.4,	49.9,
3	14.0,	207.0,	246.7,	-163.7,	43.3,	4	14.0,	227.1,	241.0,	-168.1,	35.3,
5	14.0,	240.4,	228.0,	-167.3,	26.2,	6	14.0,	246.4,	208.1,	-161.5,	16.4,
7	14.0,	244.9,	181.8,	-150.7,	6.0,	8	14.0,	235.9,	150.0,	-135.4,	-4.5,
9	14.0,	222.0,	115.9,	-118.3,	-13.8,	10	14.0,	235.7,	148.6,	-129.4,	-22.6,
11	14.0,	244.9,	180.5,	-140.2,	-31.9,	12	14.0,	246.7,	207.0,	-146.8,	-40.4,
13	14.0,	241.0,	227.1,	-148.9,	-47.6,	14	14.0,	228.0,	240.4,	-146.5,	-53.3,
15	14.0,	208.1,	246.4,	-139.6,	-57.5,	16	14.0,	181.8,	244.9,	-128.5,	-59.8,
17	14.0,	150.0,	235.9,	-113.5,	-60.4,	18	14.0,	115.9,	222.0,	-97.2,	-60.3,
19	14.0,	148.6,	235.7,	-95.3,	-55.1,	20	14.0,	180.5,	244.9,	-90.5,	-49.9,
21	14.0,	207.0,	246.7,	-83.0,	-43.3,	22	14.0,	227.1,	241.0,	-73.0,	-35.3,
23	14.0,	240.4,	228.0,	-60.7,	-26.2,	24	14.0,	246.4,	208.1,	-46.6,	-16.4,
25	14.0,	244.9,	181.8,	-31.1,	-6.0,	26	14.0,	235.9,	150.0,	-14.6,	4.5,
27	14.0,	222.0,	115.9,	2.3,	13.8,	28	14.0,	235.7,	148.6,	-19.2,	22.6,
29	14.0,	244.9,	180.5,	-40.3,	31.9,	30	14.0,	246.7,	207.0,	-60.2,	40.4,
31	14.0,	241.0,	227.1,	-78.3,	47.6,	32	14.0,	228.0,	240.4,	-94.0,	53.3,
33	14.0,	208.1,	246.4,	-106.8,	57.5,	34	14.0,	181.8,	244.9,	-116.4,	59.8,
35	14.0,	150.0,	235.9,	-122.5,	60.4,	36	14.0,	115.9,	222.0,	-124.8,	60.3,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-177.9,	45.9,	2	14.0,	180.5,	244.9,	-189.7,	34.3,
3	14.0,	207.0,	246.7,	-195.8,	21.8,	4	14.0,	227.1,	241.0,	-195.9,	8.6,
5	14.0,	240.4,	228.0,	-190.1,	-4.9,	6	14.0,	246.4,	208.1,	-178.5,	-18.2,
7	14.0,	244.9,	181.8,	-161.5,	-31.0,	8	14.0,	235.9,	150.0,	-139.6,	-42.9,
9	14.0,	222.0,	115.9,	-115.7,	-52.3,	10	14.0,	235.7,	148.6,	-120.1,	-60.0,
11	14.0,	244.9,	180.5,	-124.6,	-67.3,	12	14.0,	246.7,	207.0,	-125.3,	-72.4,
13	14.0,	241.0,	227.1,	-122.1,	-75.4,	14	14.0,	228.0,	240.4,	-115.3,	-76.1,
15	14.0,	208.1,	246.4,	-105.0,	-74.5,	16	14.0,	181.8,	244.9,	-91.4,	-70.6,
17	14.0,	150.0,	235.9,	-75.1,	-64.6,	18	14.0,	115.9,	222.0,	-58.7,	-57.7,
19	14.0,	148.6,	235.7,	-57.8,	-45.9,	20	14.0,	180.5,	244.9,	-55.2,	-34.3,
21	14.0,	207.0,	246.7,	-50.9,	-21.8,	22	14.0,	227.1,	241.0,	-45.1,	-8.6,
23	14.0,	240.4,	228.0,	-37.9,	4.9,	24	14.0,	246.4,	208.1,	-29.5,	18.2,
25	14.0,	244.9,	181.8,	-20.3,	31.0,	26	14.0,	235.9,	150.0,	-10.4,	42.9,
27	14.0,	222.0,	115.9,	-0.2,	52.3,	28	14.0,	235.7,	148.6,	-28.4,	60.0,
29	14.0,	244.9,	180.5,	-55.9,	67.3,	30	14.0,	246.7,	207.0,	-81.7,	72.4,
31	14.0,	241.0,	227.1,	-105.0,	75.4,	32	14.0,	228.0,	240.4,	-125.1,	76.1,
33	14.0,	208.1,	246.4,	-141.4,	74.5,	34	14.0,	181.8,	244.9,	-153.5,	70.6,

35 14.0, 150.0, 235.9, -160.8, 64.6, 36 14.0, 115.9, 222.0, -163.3, 57.7,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023 *** 17:16:58
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 20

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

479078.2, 479169.0, 479259.9, 479350.8, 479441.7, 479532.6, 479623.4, 479714.3, 479805.2, 479896.1,
479987.0, 480077.8, 480168.7, 480259.6, 480350.5, 480441.4, 480532.2, 480623.1, 480714.0, 480804.9,
480895.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3742099.5, 3742178.4, 3742257.3, 3742336.2, 3742415.1, 3742494.0, 3742573.0, 3742651.9, 3742730.8, 3742809.7,
3742888.6, 3742967.5, 3743046.4, 3743125.3, 3743204.2, 3743283.1, 3743362.1, 3743441.0, 3743519.9, 3743598.8,
3743677.7,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023 *** 17:16:58
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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	479078.16	479169.04	479259.92	479350.80	479441.68	479532.56	479623.44	479714.32	479805.20
3743677.70	444.10	443.80	443.20	442.70	442.30	441.10	440.40	440.50	440.50
3743598.79	443.60	443.50	443.10	442.60	442.30	440.40	440.20	439.80	439.30
3743519.88	443.70	443.80	443.50	442.80	441.80	440.50	440.40	440.40	439.70
3743440.97	443.70	443.60	443.20	442.80	441.10	440.20	439.40	439.60	439.50
3743362.06	443.60	443.30	442.80	442.30	442.00	441.00	440.50	440.70	440.00
3743283.15	443.80	443.30	442.20	441.90	440.80	441.30	441.10	440.90	440.40
3743204.24	444.00	443.40	442.60	442.50	441.60	441.10	441.30	441.10	440.70
3743125.33	444.00	443.00	442.70	442.40	442.10	440.50	440.30	440.40	441.00
3743046.42	443.90	443.00	442.70	442.40	442.20	441.90	441.40	441.20	440.80
3742967.51	443.70	443.10	442.60	442.20	442.00	441.70	441.30	440.90	440.60
3742888.60	443.50	443.00	442.60	442.20	442.00	441.70	441.40	441.00	440.70
3742809.69	442.90	442.80	442.20	442.00	441.80	441.30	440.50	440.70	440.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	480714.00	480804.88	480895.76	X-COORD (METERS)
3743677.70	440.70	441.10	441.40	
3743598.79	441.00	441.60	442.10	
3743519.88	441.10	441.60	441.70	
3743440.97	441.00	441.50	441.30	
3743362.06	440.60	440.90	440.70	
3743283.15	439.20	439.30	439.50	
3743204.24	439.20	439.40	439.60	
3743125.33	439.70	440.20	440.60	
3743046.42	439.30	440.60	441.00	
3742967.51	436.00	439.90	440.20	
3742888.60	435.50	439.40	440.40	
3742809.69	436.60	437.10	439.80	
3742730.78	437.70	435.20	439.30	
3742651.87	437.80	435.00	437.90	
3742572.96	437.90	435.80	437.50	
3742494.05	437.80	437.20	437.10	
3742415.14	438.00	437.30	435.10	
3742336.23	438.00	437.30	435.10	
3742257.32	437.80	437.20	435.90	
3742178.41	437.40	437.10	436.00	
3742099.50	437.50	436.90	435.60	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(479945.7, 3742742.3,	440.0,	440.0,	0.0);	(479918.5, 3742530.0,	439.9,	439.9,	0.0);
(480257.8, 3742923.6,	438.8,	438.8,	0.0);	(480244.2, 3743075.6,	439.2,	439.2,	0.0);
(480129.0, 3743128.0,	439.8,	439.8,	0.0);	(480038.2, 3743314.8,	439.8,	439.8,	0.0);
(479607.4, 3742910.0,	441.5,	441.5,	0.0);	(479740.5, 3742698.9,	440.3,	440.3,	0.0);
(479757.3, 3743380.4,	440.4,	440.4,	0.0);				

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023 *** 17:16:58
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

Profile format: FREE
 Surface station no.: 3171
 Name: UNKNOWN
 Year: 2010

Upper air station no.: 3190
 Name: UNKNOWN
 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5			
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5			
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5			
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5			
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5			
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5			
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5			
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5			
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5			
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5			
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5			
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5			
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5			
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5			
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5			
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5			
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5			
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5			
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5			
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5			
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5			
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5			
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5			
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023 *** 17:16:58
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0001848 , L0001849 , L0001850 , L0001851 , L0001852 ,
 L0001853 , L0001854 , L0001855 , L0001856 , L0001857 , L0001858 , L0001859 , L0001860 ,
 L0001861 , L0001862 , L0001863 , L0001864 , L0001865 , L0001866 , L0001867 , L0001868 ,
 L0001869 , L0001870 , L0001871 , L0001872 , L0001873 , L0001874 , L0001875 , . . . ,

3743598.79	0.00070	0.00052	0.00043	0.00037	0.00032	0.00027	0.00022	0.00018	0.00015
3743519.88	0.00262	0.00071	0.00055	0.00046	0.00039	0.00032	0.00026	0.00021	0.00017
3743440.97	0.00382	0.00090	0.00069	0.00057	0.00048	0.00038	0.00030	0.00024	0.00019
3743362.06	0.00362	0.00111	0.00087	0.00071	0.00057	0.00045	0.00034	0.00026	0.00021
3743283.15	0.00363	0.00138	0.00109	0.00088	0.00068	0.00051	0.00038	0.00028	0.00022
3743204.24	0.00434	0.00175	0.00141	0.00108	0.00079	0.00056	0.00041	0.00030	0.00023
3743125.33	0.00477	0.00239	0.00192	0.00133	0.00088	0.00060	0.00043	0.00032	0.00024
3743046.42	0.00484	0.00430	0.00318	0.00158	0.00093	0.00061	0.00043	0.00032	0.00024
3742967.51	0.00344	0.00396	0.00478	0.00177	0.00091	0.00059	0.00042	0.00031	0.00024
3742888.60	0.00272	0.00385	0.00527	0.00191	0.00089	0.00058	0.00041	0.00031	0.00024
3742809.69	0.00266	0.00274	0.00516	0.00225	0.00099	0.00061	0.00043	0.00032	0.00024
3742730.78	0.00167	0.00250	0.00349	0.00217	0.00115	0.00069	0.00046	0.00033	0.00025
3742651.87	0.00093	0.00131	0.00176	0.00179	0.00120	0.00075	0.00050	0.00035	0.00026
3742572.96	0.00069	0.00090	0.00116	0.00132	0.00110	0.00076	0.00051	0.00036	0.00027
3742494.05	0.00055	0.00068	0.00084	0.00098	0.00092	0.00071	0.00051	0.00036	0.00027
3742415.14	0.00044	0.00053	0.00064	0.00073	0.00074	0.00063	0.00048	0.00035	0.00026
3742336.23	0.00036	0.00043	0.00050	0.00056	0.00058	0.00053	0.00043	0.00033	0.00025
3742257.32	0.00030	0.00034	0.00039	0.00043	0.00045	0.00043	0.00037	0.00029	0.00023
3742178.41	0.00025	0.00028	0.00031	0.00034	0.00036	0.00035	0.00031	0.00026	0.00021
3742099.50	0.00020	0.00023	0.00025	0.00027	0.00028	0.00028	0.00026	0.00022	0.00019

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023 *** 17:16:58
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0001848 , L0001849 , L0001850 , L0001851 , L0001852 ,
 L0001853 , L0001854 , L0001855 , L0001856 , L0001857 , L0001858 , L0001859 , L0001860 ,
 L0001861 , L0001862 , L0001863 , L0001864 , L0001865 , L0001866 , L0001867 , L0001868 ,
 L0001869 , L0001870 , L0001871 , L0001872 , L0001873 , L0001874 , L0001875 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	480714.00	480804.88	480895.76
3743677.70	0.00011	0.00010	0.00008
3743598.79	0.00012	0.00010	0.00009
3743519.88	0.00014	0.00011	0.00009
3743440.97	0.00015	0.00012	0.00010
3743362.06	0.00016	0.00013	0.00011
3743283.15	0.00018	0.00014	0.00012
3743204.24	0.00018	0.00015	0.00012
3743125.33	0.00019	0.00015	0.00012
3743046.42	0.00019	0.00015	0.00012
3742967.51	0.00018	0.00015	0.00012
3742888.60	0.00019	0.00015	0.00012

3742809.69	0.00019	0.00015	0.00013
3742730.78	0.00019	0.00015	0.00013
3742651.87	0.00020	0.00015	0.00013
3742572.96	0.00020	0.00016	0.00013
3742494.05	0.00020	0.00016	0.00013
3742415.14	0.00020	0.00015	0.00012
3742336.23	0.00019	0.00015	0.00012
3742257.32	0.00018	0.00014	0.00012
3742178.41	0.00017	0.00013	0.00011
3742099.50	0.00015	0.00013	0.00011

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023 *** 17:16:58
 PAGE 34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0001848 , L0001849 , L0001850 , L0001851 , L0001852 ,
 L0001853 , L0001854 , L0001855 , L0001856 , L0001857 , L0001858 , L0001859 , L0001860 ,
 L0001861 , L0001862 , L0001863 , L0001864 , L0001865 , L0001866 , L0001867 , L0001868 ,
 L0001869 , L0001870 , L0001871 , L0001872 , L0001873 , L0001874 , L0001875 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479945.68	3742742.32	0.00251	479918.48	3742530.00	0.00064
480257.79	3742923.65	0.00090	480244.23	3743075.64	0.00099
480128.98	3743127.99	0.00156	480038.23	3743314.81	0.00110
479607.39	3742910.04	0.00051	479740.51	3742698.91	0.00062
479757.35	3743380.40	0.00075			

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - OY 2023 *** 17:16:58
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00527 AT (480077.84, 3742888.60, 439.40, 439.40, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00516 AT (480077.84, 3742809.69, 439.40, 439.40, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00484 AT (479896.08, 3743046.42, 440.70, 440.70, 0.00)	GC	UCART1


```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/17/2021
** File: C:\Lakes\19371 Redlands Avenue East 2024-25\19371 Redlands Avenue East 2024-25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE 19371 Redlands Ave East Industrial
TITLETWO DPM Concentrations - 2024-2025
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19371 Redlands Avenue East 2024-25.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Northern project drive to loading to southern project drive
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 8.33E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 9
** 479892.242, 3742773.165, 440.27, 0.00, 1.70
** 479918.594, 3742770.631, 440.11, 0.00, 1.70

```

** 479930.481, 3742766.507, 440.01, 0.00, 1.70
 ** 480061.235, 3742767.720, 439.55, 0.00, 1.70
 ** 480062.694, 3743002.863, 439.74, 0.00, 1.70
 ** 480062.670, 3743004.786, 439.74, 0.00, 1.70
 ** 479934.893, 3743004.476, 440.18, 0.00, 1.70
 ** 479917.905, 3742998.550, 440.32, 0.00, 1.70
 ** 479894.578, 3742998.262, 440.60, 0.00, 1.70

** -----

LOCATION	L0002381	VOLUME	479894.062	3742772.990	440.28
LOCATION	L0002382	VOLUME	479897.703	3742772.640	440.24
LOCATION	L0002383	VOLUME	479901.344	3742772.290	440.21
LOCATION	L0002384	VOLUME	479904.985	3742771.940	440.17
LOCATION	L0002385	VOLUME	479908.625	3742771.590	440.14
LOCATION	L0002386	VOLUME	479912.266	3742771.240	440.11
LOCATION	L0002387	VOLUME	479915.907	3742770.890	440.09
LOCATION	L0002388	VOLUME	479919.499	3742770.317	440.07
LOCATION	L0002389	VOLUME	479922.955	3742769.119	440.05
LOCATION	L0002390	VOLUME	479926.410	3742767.920	440.03
LOCATION	L0002391	VOLUME	479929.866	3742766.721	440.01
LOCATION	L0002392	VOLUME	479933.488	3742766.535	439.99
LOCATION	L0002393	VOLUME	479937.145	3742766.569	439.97
LOCATION	L0002394	VOLUME	479940.802	3742766.603	439.96
LOCATION	L0002395	VOLUME	479944.460	3742766.637	439.95
LOCATION	L0002396	VOLUME	479948.117	3742766.671	439.94
LOCATION	L0002397	VOLUME	479951.775	3742766.705	439.92
LOCATION	L0002398	VOLUME	479955.432	3742766.739	439.91
LOCATION	L0002399	VOLUME	479959.090	3742766.773	439.90
LOCATION	L0002400	VOLUME	479962.747	3742766.807	439.89
LOCATION	L0002401	VOLUME	479966.405	3742766.841	439.88
LOCATION	L0002402	VOLUME	479970.062	3742766.875	439.87
LOCATION	L0002403	VOLUME	479973.719	3742766.909	439.87
LOCATION	L0002404	VOLUME	479977.377	3742766.943	439.86
LOCATION	L0002405	VOLUME	479981.034	3742766.976	439.85
LOCATION	L0002406	VOLUME	479984.692	3742767.010	439.85
LOCATION	L0002407	VOLUME	479988.349	3742767.044	439.84
LOCATION	L0002408	VOLUME	479992.007	3742767.078	439.82
LOCATION	L0002409	VOLUME	479995.664	3742767.112	439.81
LOCATION	L0002410	VOLUME	479999.322	3742767.146	439.80
LOCATION	L0002411	VOLUME	480002.979	3742767.180	439.78
LOCATION	L0002412	VOLUME	480006.636	3742767.214	439.77
LOCATION	L0002413	VOLUME	480010.294	3742767.248	439.75
LOCATION	L0002414	VOLUME	480013.951	3742767.282	439.74
LOCATION	L0002415	VOLUME	480017.609	3742767.316	439.72
LOCATION	L0002416	VOLUME	480021.266	3742767.350	439.71
LOCATION	L0002417	VOLUME	480024.924	3742767.384	439.69
LOCATION	L0002418	VOLUME	480028.581	3742767.417	439.68
LOCATION	L0002419	VOLUME	480032.238	3742767.451	439.66
LOCATION	L0002420	VOLUME	480035.896	3742767.485	439.65
LOCATION	L0002421	VOLUME	480039.553	3742767.519	439.63
LOCATION	L0002422	VOLUME	480043.211	3742767.553	439.62
LOCATION	L0002423	VOLUME	480046.868	3742767.587	439.60

LOCATION	L0002424	VOLUME	480050.526	3742767.621	439.59
LOCATION	L0002425	VOLUME	480054.183	3742767.655	439.57
LOCATION	L0002426	VOLUME	480057.841	3742767.689	439.56
LOCATION	L0002427	VOLUME	480061.237	3742767.983	439.54
LOCATION	L0002428	VOLUME	480061.259	3742771.641	439.54
LOCATION	L0002429	VOLUME	480061.282	3742775.298	439.53
LOCATION	L0002430	VOLUME	480061.305	3742778.956	439.52
LOCATION	L0002431	VOLUME	480061.328	3742782.613	439.51
LOCATION	L0002432	VOLUME	480061.350	3742786.271	439.50
LOCATION	L0002433	VOLUME	480061.373	3742789.928	439.49
LOCATION	L0002434	VOLUME	480061.396	3742793.586	439.48
LOCATION	L0002435	VOLUME	480061.418	3742797.244	439.48
LOCATION	L0002436	VOLUME	480061.441	3742800.901	439.47
LOCATION	L0002437	VOLUME	480061.464	3742804.559	439.46
LOCATION	L0002438	VOLUME	480061.486	3742808.216	439.45
LOCATION	L0002439	VOLUME	480061.509	3742811.874	439.45
LOCATION	L0002440	VOLUME	480061.532	3742815.531	439.44
LOCATION	L0002441	VOLUME	480061.555	3742819.189	439.43
LOCATION	L0002442	VOLUME	480061.577	3742822.846	439.43
LOCATION	L0002443	VOLUME	480061.600	3742826.504	439.42
LOCATION	L0002444	VOLUME	480061.623	3742830.161	439.42
LOCATION	L0002445	VOLUME	480061.645	3742833.819	439.42
LOCATION	L0002446	VOLUME	480061.668	3742837.476	439.41
LOCATION	L0002447	VOLUME	480061.691	3742841.134	439.41
LOCATION	L0002448	VOLUME	480061.713	3742844.791	439.40
LOCATION	L0002449	VOLUME	480061.736	3742848.449	439.40
LOCATION	L0002450	VOLUME	480061.759	3742852.106	439.40
LOCATION	L0002451	VOLUME	480061.782	3742855.764	439.41
LOCATION	L0002452	VOLUME	480061.804	3742859.422	439.41
LOCATION	L0002453	VOLUME	480061.827	3742863.079	439.42
LOCATION	L0002454	VOLUME	480061.850	3742866.737	439.42
LOCATION	L0002455	VOLUME	480061.872	3742870.394	439.43
LOCATION	L0002456	VOLUME	480061.895	3742874.052	439.44
LOCATION	L0002457	VOLUME	480061.918	3742877.709	439.44
LOCATION	L0002458	VOLUME	480061.940	3742881.367	439.45
LOCATION	L0002459	VOLUME	480061.963	3742885.024	439.45
LOCATION	L0002460	VOLUME	480061.986	3742888.682	439.46
LOCATION	L0002461	VOLUME	480062.009	3742892.339	439.46
LOCATION	L0002462	VOLUME	480062.031	3742895.997	439.47
LOCATION	L0002463	VOLUME	480062.054	3742899.654	439.47
LOCATION	L0002464	VOLUME	480062.077	3742903.312	439.48
LOCATION	L0002465	VOLUME	480062.099	3742906.969	439.48
LOCATION	L0002466	VOLUME	480062.122	3742910.627	439.48
LOCATION	L0002467	VOLUME	480062.145	3742914.284	439.49
LOCATION	L0002468	VOLUME	480062.167	3742917.942	439.51
LOCATION	L0002469	VOLUME	480062.190	3742921.600	439.52
LOCATION	L0002470	VOLUME	480062.213	3742925.257	439.53
LOCATION	L0002471	VOLUME	480062.236	3742928.915	439.54
LOCATION	L0002472	VOLUME	480062.258	3742932.572	439.56
LOCATION	L0002473	VOLUME	480062.281	3742936.230	439.57
LOCATION	L0002474	VOLUME	480062.304	3742939.887	439.58

LOCATION	L0002475	VOLUME	480062.326	3742943.545	439.59
LOCATION	L0002476	VOLUME	480062.349	3742947.202	439.60
LOCATION	L0002477	VOLUME	480062.372	3742950.860	439.61
LOCATION	L0002478	VOLUME	480062.394	3742954.517	439.61
LOCATION	L0002479	VOLUME	480062.417	3742958.175	439.62
LOCATION	L0002480	VOLUME	480062.440	3742961.832	439.63
LOCATION	L0002481	VOLUME	480062.463	3742965.490	439.63
LOCATION	L0002482	VOLUME	480062.485	3742969.147	439.64
LOCATION	L0002483	VOLUME	480062.508	3742972.805	439.65
LOCATION	L0002484	VOLUME	480062.531	3742976.462	439.66
LOCATION	L0002485	VOLUME	480062.553	3742980.120	439.67
LOCATION	L0002486	VOLUME	480062.576	3742983.778	439.68
LOCATION	L0002487	VOLUME	480062.599	3742987.435	439.69
LOCATION	L0002488	VOLUME	480062.621	3742991.093	439.70
LOCATION	L0002489	VOLUME	480062.644	3742994.750	439.71
LOCATION	L0002490	VOLUME	480062.667	3742998.408	439.73
LOCATION	L0002491	VOLUME	480062.690	3743002.065	439.74
LOCATION	L0002492	VOLUME	480061.734	3743004.784	439.75
LOCATION	L0002493	VOLUME	480058.076	3743004.775	439.76
LOCATION	L0002494	VOLUME	480054.419	3743004.766	439.78
LOCATION	L0002495	VOLUME	480050.761	3743004.757	439.79
LOCATION	L0002496	VOLUME	480047.104	3743004.749	439.80
LOCATION	L0002497	VOLUME	480043.446	3743004.740	439.81
LOCATION	L0002498	VOLUME	480039.789	3743004.731	439.83
LOCATION	L0002499	VOLUME	480036.131	3743004.722	439.84
LOCATION	L0002500	VOLUME	480032.473	3743004.713	439.86
LOCATION	L0002501	VOLUME	480028.816	3743004.704	439.87
LOCATION	L0002502	VOLUME	480025.158	3743004.695	439.88
LOCATION	L0002503	VOLUME	480021.501	3743004.686	439.90
LOCATION	L0002504	VOLUME	480017.843	3743004.677	439.91
LOCATION	L0002505	VOLUME	480014.185	3743004.669	439.93
LOCATION	L0002506	VOLUME	480010.528	3743004.660	439.94
LOCATION	L0002507	VOLUME	480006.870	3743004.651	439.95
LOCATION	L0002508	VOLUME	480003.213	3743004.642	439.97
LOCATION	L0002509	VOLUME	479999.555	3743004.633	439.98
LOCATION	L0002510	VOLUME	479995.897	3743004.624	440.00
LOCATION	L0002511	VOLUME	479992.240	3743004.615	440.01
LOCATION	L0002512	VOLUME	479988.582	3743004.606	440.02
LOCATION	L0002513	VOLUME	479984.925	3743004.597	440.04
LOCATION	L0002514	VOLUME	479981.267	3743004.588	440.05
LOCATION	L0002515	VOLUME	479977.610	3743004.580	440.06
LOCATION	L0002516	VOLUME	479973.952	3743004.571	440.07
LOCATION	L0002517	VOLUME	479970.294	3743004.562	440.09
LOCATION	L0002518	VOLUME	479966.637	3743004.553	440.10
LOCATION	L0002519	VOLUME	479962.979	3743004.544	440.11
LOCATION	L0002520	VOLUME	479959.322	3743004.535	440.12
LOCATION	L0002521	VOLUME	479955.664	3743004.526	440.13
LOCATION	L0002522	VOLUME	479952.006	3743004.517	440.14
LOCATION	L0002523	VOLUME	479948.349	3743004.508	440.15
LOCATION	L0002524	VOLUME	479944.691	3743004.500	440.16
LOCATION	L0002525	VOLUME	479941.034	3743004.491	440.17

LOCATION L0002526	VOLUME	479937.376	3743004.482	440.18
LOCATION L0002527	VOLUME	479933.784	3743004.089	440.20
LOCATION L0002528	VOLUME	479930.330	3743002.884	440.21
LOCATION L0002529	VOLUME	479926.877	3743001.679	440.23
LOCATION L0002530	VOLUME	479923.423	3743000.475	440.25
LOCATION L0002531	VOLUME	479919.970	3742999.270	440.27
LOCATION L0002532	VOLUME	479916.434	3742998.532	440.29
LOCATION L0002533	VOLUME	479912.777	3742998.487	440.31
LOCATION L0002534	VOLUME	479909.120	3742998.442	440.35
LOCATION L0002535	VOLUME	479905.463	3742998.397	440.39
LOCATION L0002536	VOLUME	479901.805	3742998.351	440.43
LOCATION L0002537	VOLUME	479898.148	3742998.306	440.47

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Redlands Ave S project driveway to N project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 9.63E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 479887.270, 3742772.613, 440.29, 0.00, 1.70

** 479888.653, 3742998.428, 440.60, 0.00, 1.70

** -----

LOCATION L0002538	VOLUME	479887.281	3742774.441	440.35
LOCATION L0002539	VOLUME	479887.304	3742778.099	440.36
LOCATION L0002540	VOLUME	479887.326	3742781.757	440.36
LOCATION L0002541	VOLUME	479887.349	3742785.414	440.37
LOCATION L0002542	VOLUME	479887.371	3742789.072	440.38
LOCATION L0002543	VOLUME	479887.393	3742792.729	440.39
LOCATION L0002544	VOLUME	479887.416	3742796.387	440.40
LOCATION L0002545	VOLUME	479887.438	3742800.044	440.42
LOCATION L0002546	VOLUME	479887.461	3742803.702	440.43
LOCATION L0002547	VOLUME	479887.483	3742807.359	440.44
LOCATION L0002548	VOLUME	479887.505	3742811.017	440.46
LOCATION L0002549	VOLUME	479887.528	3742814.674	440.47
LOCATION L0002550	VOLUME	479887.550	3742818.332	440.48
LOCATION L0002551	VOLUME	479887.573	3742821.989	440.49
LOCATION L0002552	VOLUME	479887.595	3742825.647	440.49
LOCATION L0002553	VOLUME	479887.617	3742829.304	440.50
LOCATION L0002554	VOLUME	479887.640	3742832.962	440.50
LOCATION L0002555	VOLUME	479887.662	3742836.620	440.51
LOCATION L0002556	VOLUME	479887.685	3742840.277	440.51
LOCATION L0002557	VOLUME	479887.707	3742843.935	440.51
LOCATION L0002558	VOLUME	479887.729	3742847.592	440.52
LOCATION L0002559	VOLUME	479887.752	3742851.250	440.52
LOCATION L0002560	VOLUME	479887.774	3742854.907	440.52

LOCATION	L0002561	VOLUME	479887.797	3742858.565	440.52
LOCATION	L0002562	VOLUME	479887.819	3742862.222	440.51
LOCATION	L0002563	VOLUME	479887.841	3742865.880	440.51
LOCATION	L0002564	VOLUME	479887.864	3742869.537	440.51
LOCATION	L0002565	VOLUME	479887.886	3742873.195	440.50
LOCATION	L0002566	VOLUME	479887.909	3742876.852	440.50
LOCATION	L0002567	VOLUME	479887.931	3742880.510	440.50
LOCATION	L0002568	VOLUME	479887.953	3742884.167	440.49
LOCATION	L0002569	VOLUME	479887.976	3742887.825	440.48
LOCATION	L0002570	VOLUME	479887.998	3742891.483	440.48
LOCATION	L0002571	VOLUME	479888.021	3742895.140	440.47
LOCATION	L0002572	VOLUME	479888.043	3742898.798	440.46
LOCATION	L0002573	VOLUME	479888.065	3742902.455	440.46
LOCATION	L0002574	VOLUME	479888.088	3742906.113	440.45
LOCATION	L0002575	VOLUME	479888.110	3742909.770	440.44
LOCATION	L0002576	VOLUME	479888.133	3742913.428	440.44
LOCATION	L0002577	VOLUME	479888.155	3742917.085	440.44
LOCATION	L0002578	VOLUME	479888.177	3742920.743	440.45
LOCATION	L0002579	VOLUME	479888.200	3742924.400	440.45
LOCATION	L0002580	VOLUME	479888.222	3742928.058	440.45
LOCATION	L0002581	VOLUME	479888.245	3742931.715	440.46
LOCATION	L0002582	VOLUME	479888.267	3742935.373	440.46
LOCATION	L0002583	VOLUME	479888.289	3742939.030	440.46
LOCATION	L0002584	VOLUME	479888.312	3742942.688	440.47
LOCATION	L0002585	VOLUME	479888.334	3742946.345	440.47
LOCATION	L0002586	VOLUME	479888.357	3742950.003	440.48
LOCATION	L0002587	VOLUME	479888.379	3742953.661	440.49
LOCATION	L0002588	VOLUME	479888.401	3742957.318	440.50
LOCATION	L0002589	VOLUME	479888.424	3742960.976	440.50
LOCATION	L0002590	VOLUME	479888.446	3742964.633	440.51
LOCATION	L0002591	VOLUME	479888.469	3742968.291	440.52
LOCATION	L0002592	VOLUME	479888.491	3742971.948	440.52
LOCATION	L0002593	VOLUME	479888.513	3742975.606	440.53
LOCATION	L0002594	VOLUME	479888.536	3742979.263	440.54
LOCATION	L0002595	VOLUME	479888.558	3742982.921	440.54
LOCATION	L0002596	VOLUME	479888.581	3742986.578	440.55
LOCATION	L0002597	VOLUME	479888.603	3742990.236	440.55
LOCATION	L0002598	VOLUME	479888.625	3742993.893	440.56
LOCATION	L0002599	VOLUME	479888.648	3742997.551	440.57

** End of LINE VOLUME Source ID = SLINE2

**

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Redlands Ave north of northern project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 4.9E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

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** Nodes = 4
** 479888.636, 3743002.089, 440.60, 0.00, 1.70
** 479893.826, 3743342.010, 440.41, 0.00, 1.70
** 479898.370, 3743357.588, 440.21, 0.00, 1.70
** 479906.036, 3743575.324, 439.75, 0.00, 1.70

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** LOCATION L0002600    VOLUME  479888.664 3743003.918 440.58
LOCATION L0002601    VOLUME  479888.720 3743007.575 440.59
LOCATION L0002602    VOLUME  479888.776 3743011.232 440.61
LOCATION L0002603    VOLUME  479888.831 3743014.889 440.62
LOCATION L0002604    VOLUME  479888.887 3743018.547 440.64
LOCATION L0002605    VOLUME  479888.943 3743022.204 440.65
LOCATION L0002606    VOLUME  479888.999 3743025.861 440.67
LOCATION L0002607    VOLUME  479889.055 3743029.518 440.68
LOCATION L0002608    VOLUME  479889.111 3743033.175 440.70
LOCATION L0002609    VOLUME  479889.167 3743036.833 440.72
LOCATION L0002610    VOLUME  479889.222 3743040.490 440.74
LOCATION L0002611    VOLUME  479889.278 3743044.147 440.76
LOCATION L0002612    VOLUME  479889.334 3743047.804 440.78
LOCATION L0002613    VOLUME  479889.390 3743051.461 440.80
LOCATION L0002614    VOLUME  479889.446 3743055.118 440.82
LOCATION L0002615    VOLUME  479889.502 3743058.776 440.84
LOCATION L0002616    VOLUME  479889.557 3743062.433 440.86
LOCATION L0002617    VOLUME  479889.613 3743066.090 440.88
LOCATION L0002618    VOLUME  479889.669 3743069.747 440.89
LOCATION L0002619    VOLUME  479889.725 3743073.404 440.91
LOCATION L0002620    VOLUME  479889.781 3743077.061 440.92
LOCATION L0002621    VOLUME  479889.837 3743080.719 440.94
LOCATION L0002622    VOLUME  479889.892 3743084.376 440.95
LOCATION L0002623    VOLUME  479889.948 3743088.033 440.97
LOCATION L0002624    VOLUME  479890.004 3743091.690 440.98
LOCATION L0002625    VOLUME  479890.060 3743095.347 441.00
LOCATION L0002626    VOLUME  479890.116 3743099.004 441.00
LOCATION L0002627    VOLUME  479890.172 3743102.662 441.00
LOCATION L0002628    VOLUME  479890.228 3743106.319 441.00
LOCATION L0002629    VOLUME  479890.283 3743109.976 441.00
LOCATION L0002630    VOLUME  479890.339 3743113.633 440.99
LOCATION L0002631    VOLUME  479890.395 3743117.290 440.99
LOCATION L0002632    VOLUME  479890.451 3743120.948 440.99
LOCATION L0002633    VOLUME  479890.507 3743124.605 440.99
LOCATION L0002634    VOLUME  479890.563 3743128.262 440.99
LOCATION L0002635    VOLUME  479890.618 3743131.919 440.98
LOCATION L0002636    VOLUME  479890.674 3743135.576 440.97
LOCATION L0002637    VOLUME  479890.730 3743139.233 440.97
LOCATION L0002638    VOLUME  479890.786 3743142.891 440.96
LOCATION L0002639    VOLUME  479890.842 3743146.548 440.95
LOCATION L0002640    VOLUME  479890.898 3743150.205 440.95
LOCATION L0002641    VOLUME  479890.953 3743153.862 440.94
LOCATION L0002642    VOLUME  479891.009 3743157.519 440.93
LOCATION L0002643    VOLUME  479891.065 3743161.176 440.93
LOCATION L0002644    VOLUME  479891.121 3743164.834 440.92

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LOCATION	L0002645	VOLUME	479891.177	3743168.491	440.91
LOCATION	L0002646	VOLUME	479891.233	3743172.148	440.90
LOCATION	L0002647	VOLUME	479891.289	3743175.805	440.89
LOCATION	L0002648	VOLUME	479891.344	3743179.462	440.88
LOCATION	L0002649	VOLUME	479891.400	3743183.119	440.87
LOCATION	L0002650	VOLUME	479891.456	3743186.777	440.86
LOCATION	L0002651	VOLUME	479891.512	3743190.434	440.85
LOCATION	L0002652	VOLUME	479891.568	3743194.091	440.84
LOCATION	L0002653	VOLUME	479891.624	3743197.748	440.84
LOCATION	L0002654	VOLUME	479891.679	3743201.405	440.83
LOCATION	L0002655	VOLUME	479891.735	3743205.063	440.82
LOCATION	L0002656	VOLUME	479891.791	3743208.720	440.82
LOCATION	L0002657	VOLUME	479891.847	3743212.377	440.81
LOCATION	L0002658	VOLUME	479891.903	3743216.034	440.81
LOCATION	L0002659	VOLUME	479891.959	3743219.691	440.80
LOCATION	L0002660	VOLUME	479892.014	3743223.348	440.79
LOCATION	L0002661	VOLUME	479892.070	3743227.006	440.79
LOCATION	L0002662	VOLUME	479892.126	3743230.663	440.78
LOCATION	L0002663	VOLUME	479892.182	3743234.320	440.77
LOCATION	L0002664	VOLUME	479892.238	3743237.977	440.77
LOCATION	L0002665	VOLUME	479892.294	3743241.634	440.76
LOCATION	L0002666	VOLUME	479892.349	3743245.291	440.76
LOCATION	L0002667	VOLUME	479892.405	3743248.949	440.75
LOCATION	L0002668	VOLUME	479892.461	3743252.606	440.74
LOCATION	L0002669	VOLUME	479892.517	3743256.263	440.73
LOCATION	L0002670	VOLUME	479892.573	3743259.920	440.72
LOCATION	L0002671	VOLUME	479892.629	3743263.577	440.70
LOCATION	L0002672	VOLUME	479892.685	3743267.234	440.69
LOCATION	L0002673	VOLUME	479892.740	3743270.892	440.68
LOCATION	L0002674	VOLUME	479892.796	3743274.549	440.67
LOCATION	L0002675	VOLUME	479892.852	3743278.206	440.66
LOCATION	L0002676	VOLUME	479892.908	3743281.863	440.64
LOCATION	L0002677	VOLUME	479892.964	3743285.520	440.63
LOCATION	L0002678	VOLUME	479893.020	3743289.178	440.62
LOCATION	L0002679	VOLUME	479893.075	3743292.835	440.61
LOCATION	L0002680	VOLUME	479893.131	3743296.492	440.60
LOCATION	L0002681	VOLUME	479893.187	3743300.149	440.59
LOCATION	L0002682	VOLUME	479893.243	3743303.806	440.57
LOCATION	L0002683	VOLUME	479893.299	3743307.463	440.56
LOCATION	L0002684	VOLUME	479893.355	3743311.121	440.55
LOCATION	L0002685	VOLUME	479893.410	3743314.778	440.54
LOCATION	L0002686	VOLUME	479893.466	3743318.435	440.52
LOCATION	L0002687	VOLUME	479893.522	3743322.092	440.50
LOCATION	L0002688	VOLUME	479893.578	3743325.749	440.49
LOCATION	L0002689	VOLUME	479893.634	3743329.406	440.47
LOCATION	L0002690	VOLUME	479893.690	3743333.064	440.45
LOCATION	L0002691	VOLUME	479893.746	3743336.721	440.44
LOCATION	L0002692	VOLUME	479893.801	3743340.378	440.42
LOCATION	L0002693	VOLUME	479894.393	3743343.954	440.40
LOCATION	L0002694	VOLUME	479895.418	3743347.466	440.37
LOCATION	L0002695	VOLUME	479896.442	3743350.977	440.34

LOCATION	L0002696	VOLUME	479897.466	3743354.488	440.31
LOCATION	L0002697	VOLUME	479898.385	3743358.016	440.28
LOCATION	L0002698	VOLUME	479898.514	3743361.672	440.25
LOCATION	L0002699	VOLUME	479898.642	3743365.327	440.22
LOCATION	L0002700	VOLUME	479898.771	3743368.982	440.19
LOCATION	L0002701	VOLUME	479898.900	3743372.638	440.16
LOCATION	L0002702	VOLUME	479899.029	3743376.293	440.12
LOCATION	L0002703	VOLUME	479899.157	3743379.948	440.09
LOCATION	L0002704	VOLUME	479899.286	3743383.604	440.05
LOCATION	L0002705	VOLUME	479899.415	3743387.259	440.01
LOCATION	L0002706	VOLUME	479899.543	3743390.914	439.97
LOCATION	L0002707	VOLUME	479899.672	3743394.570	439.94
LOCATION	L0002708	VOLUME	479899.801	3743398.225	439.90
LOCATION	L0002709	VOLUME	479899.929	3743401.880	439.86
LOCATION	L0002710	VOLUME	479900.058	3743405.536	439.83
LOCATION	L0002711	VOLUME	479900.187	3743409.191	439.82
LOCATION	L0002712	VOLUME	479900.315	3743412.846	439.82
LOCATION	L0002713	VOLUME	479900.444	3743416.502	439.81
LOCATION	L0002714	VOLUME	479900.573	3743420.157	439.81
LOCATION	L0002715	VOLUME	479900.702	3743423.812	439.80
LOCATION	L0002716	VOLUME	479900.830	3743427.468	439.80
LOCATION	L0002717	VOLUME	479900.959	3743431.123	439.79
LOCATION	L0002718	VOLUME	479901.088	3743434.778	439.79
LOCATION	L0002719	VOLUME	479901.216	3743438.434	439.80
LOCATION	L0002720	VOLUME	479901.345	3743442.089	439.82
LOCATION	L0002721	VOLUME	479901.474	3743445.744	439.84
LOCATION	L0002722	VOLUME	479901.602	3743449.400	439.86
LOCATION	L0002723	VOLUME	479901.731	3743453.055	439.88
LOCATION	L0002724	VOLUME	479901.860	3743456.710	439.90
LOCATION	L0002725	VOLUME	479901.988	3743460.366	439.92
LOCATION	L0002726	VOLUME	479902.117	3743464.021	439.94
LOCATION	L0002727	VOLUME	479902.246	3743467.676	439.95
LOCATION	L0002728	VOLUME	479902.374	3743471.332	439.93
LOCATION	L0002729	VOLUME	479902.503	3743474.987	439.92
LOCATION	L0002730	VOLUME	479902.632	3743478.642	439.91
LOCATION	L0002731	VOLUME	479902.761	3743482.298	439.89
LOCATION	L0002732	VOLUME	479902.889	3743485.953	439.88
LOCATION	L0002733	VOLUME	479903.018	3743489.608	439.87
LOCATION	L0002734	VOLUME	479903.147	3743493.264	439.86
LOCATION	L0002735	VOLUME	479903.275	3743496.919	439.84
LOCATION	L0002736	VOLUME	479903.404	3743500.574	439.83
LOCATION	L0002737	VOLUME	479903.533	3743504.230	439.82
LOCATION	L0002738	VOLUME	479903.661	3743507.885	439.82
LOCATION	L0002739	VOLUME	479903.790	3743511.540	439.81
LOCATION	L0002740	VOLUME	479903.919	3743515.196	439.80
LOCATION	L0002741	VOLUME	479904.047	3743518.851	439.79
LOCATION	L0002742	VOLUME	479904.176	3743522.506	439.78
LOCATION	L0002743	VOLUME	479904.305	3743526.162	439.77
LOCATION	L0002744	VOLUME	479904.434	3743529.817	439.77
LOCATION	L0002745	VOLUME	479904.562	3743533.472	439.76
LOCATION	L0002746	VOLUME	479904.691	3743537.128	439.75

LOCATION	L0002747	VOLUME	479904.820	3743540.783	439.75
LOCATION	L0002748	VOLUME	479904.948	3743544.438	439.74
LOCATION	L0002749	VOLUME	479905.077	3743548.094	439.74
LOCATION	L0002750	VOLUME	479905.206	3743551.749	439.73
LOCATION	L0002751	VOLUME	479905.334	3743555.404	439.73
LOCATION	L0002752	VOLUME	479905.463	3743559.060	439.72
LOCATION	L0002753	VOLUME	479905.592	3743562.715	439.72
LOCATION	L0002754	VOLUME	479905.720	3743566.371	439.71
LOCATION	L0002755	VOLUME	479905.849	3743570.026	439.71
LOCATION	L0002756	VOLUME	479905.978	3743573.681	439.71
**	End of LINE VOLUME Source ID = SLINE3				
LOCATION	STCK1	POINT	480051.620	3742829.628	439.470
**	DESCRSRC	Idle 1			
LOCATION	STCK2	POINT	480051.137	3742865.179	439.480
**	DESCRSRC	Idle 2			
LOCATION	STCK3	POINT	480050.469	3742899.287	439.530
**	DESCRSRC	Idle 3			
LOCATION	STCK4	POINT	480047.897	3742937.803	439.640
**	DESCRSRC	Idle 4			
**	Source Parameters **				
**	LINE VOLUME Source ID = SLINE1				
SRCPARAM	L0002381	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002382	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002383	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002384	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002385	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002386	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002387	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002388	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002389	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002390	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002391	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002392	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002393	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002394	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002395	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002396	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002397	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002398	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002399	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002400	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002401	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002402	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002403	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002404	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002405	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002406	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002407	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002408	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002409	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002410	0.00000005306	0.00	1.70	6.52

SRCPARAM	L0002513	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002514	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002515	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002516	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002517	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002518	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002519	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002520	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002521	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002522	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002523	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002524	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002525	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002526	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002527	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002528	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002529	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002530	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002531	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002532	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002533	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002534	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002535	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002536	0.00000005306	0.00	1.70	6.52
SRCPARAM	L0002537	0.00000005306	0.00	1.70	6.52

**

 ** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0002538	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002539	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002540	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002541	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002542	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002543	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002544	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002545	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002546	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002547	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002548	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002549	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002550	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002551	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002552	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002553	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002554	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002555	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002556	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002557	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002558	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002559	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002560	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002561	0.00000001553	0.00	1.70	0.85

SRCPARAM	L0002562	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002563	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002564	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002565	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002566	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002567	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002568	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002569	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002570	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002571	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002572	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002573	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002574	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002575	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002576	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002577	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002578	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002579	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002580	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002581	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002582	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002583	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002584	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002585	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002586	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002587	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002588	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002589	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002590	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002591	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002592	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002593	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002594	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002595	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002596	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002597	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002598	0.00000001553	0.00	1.70	0.85
SRCPARAM	L0002599	0.00000001553	0.00	1.70	0.85

**

 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0002600	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002601	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002602	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002603	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002604	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002605	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002606	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002607	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002608	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002609	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002610	0.00000003121	0.00	1.70	0.85

SRCPARAM	L0002713	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002714	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002715	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002716	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002717	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002718	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002719	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002720	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002721	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002722	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002723	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002724	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002725	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002726	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002727	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002728	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002729	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002730	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002731	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002732	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002733	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002734	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002735	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002736	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002737	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002738	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002739	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002740	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002741	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002742	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002743	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002744	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002745	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002746	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002747	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002748	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002749	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002750	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002751	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002752	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002753	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002754	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002755	0.00000003121	0.00	1.70	0.85
SRCPARAM	L0002756	0.00000003121	0.00	1.70	0.85

**

SRCPARAM	STCK1	0.0000134	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000134	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000134	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000134	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDWID	STCK4	148.55	180.50	206.97	227.14	240.42	246.39
BUILDWID	STCK4	244.87	235.92	221.96	235.70	244.94	246.74
BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
XBADJ	STCK1	-72.00	-89.35	-103.99	-115.47	-123.44	-127.66
XBADJ	STCK1	-128.00	-124.45	-119.42	-142.59	-165.09	-182.58
XBADJ	STCK1	-194.52	-200.55	-200.48	-194.33	-182.27	-166.84
XBADJ	STCK1	-163.70	-155.59	-142.75	-125.57	-104.58	-80.41
XBADJ	STCK1	-53.79	-25.54	3.48	-5.97	-15.41	-24.39
XBADJ	STCK1	-32.63	-39.87	-45.91	-50.54	-53.65	-55.12
XBADJ	STCK2	-106.93	-122.60	-134.54	-142.39	-145.92	-145.02
XBADJ	STCK2	-139.71	-130.15	-118.94	-135.94	-152.48	-164.39
XBADJ	STCK2	-171.30	-173.01	-169.46	-160.76	-147.17	-131.29
XBADJ	STCK2	-128.77	-122.35	-112.20	-98.65	-82.09	-63.05
XBADJ	STCK2	-42.08	-19.84	3.00	-12.61	-28.02	-42.58
XBADJ	STCK2	-55.85	-67.41	-76.93	-84.11	-88.74	-90.67
XBADJ	STCK3	-140.40	-154.42	-163.74	-168.09	-167.34	-161.49
XBADJ	STCK3	-150.74	-135.41	-118.27	-129.36	-140.18	-146.75
XBADJ	STCK3	-148.86	-146.45	-139.58	-128.48	-113.47	-97.18
XBADJ	STCK3	-95.30	-90.52	-83.00	-72.95	-60.68	-46.57

XBADJ	STCK3	-31.05	-14.58	2.33	-19.20	-40.32	-60.22
XBADJ	STCK3	-78.28	-93.97	-106.81	-116.40	-122.45	-124.78
XBADJ	STCK4	-177.88	-189.73	-195.81	-195.94	-190.12	-178.52
XBADJ	STCK4	-161.50	-139.57	-115.70	-120.14	-124.60	-125.27
XBADJ	STCK4	-122.14	-115.29	-104.95	-91.41	-75.10	-58.67
XBADJ	STCK4	-57.82	-55.21	-50.93	-45.10	-37.90	-29.54
XBADJ	STCK4	-20.29	-10.42	-0.24	-28.41	-55.90	-81.70
XBADJ	STCK4	-105.01	-125.13	-141.44	-153.46	-160.82	-163.29
YBADJ	STCK1	68.31	74.84	79.09	80.95	80.34	77.29
YBADJ	STCK1	71.89	64.31	55.86	45.85	33.12	19.38
YBADJ	STCK1	5.05	-9.43	-23.63	-37.10	-49.45	-61.45
YBADJ	STCK1	-68.31	-74.84	-79.09	-80.95	-80.34	-77.29
YBADJ	STCK1	-71.89	-64.31	-55.86	-45.85	-33.12	-19.38
YBADJ	STCK1	-5.05	9.43	23.63	37.10	49.45	61.45
YBADJ	STCK2	61.66	62.23	60.90	57.73	52.80	46.26
YBADJ	STCK2	38.32	29.22	20.31	10.92	-0.12	-11.17
YBADJ	STCK2	-21.87	-31.91	-40.99	-48.81	-55.15	-60.97
YBADJ	STCK2	-61.66	-62.23	-60.90	-57.73	-52.80	-46.26
YBADJ	STCK2	-38.32	-29.22	-20.31	-10.92	0.12	11.17
YBADJ	STCK2	21.87	31.91	40.99	48.81	55.15	60.97
YBADJ	STCK3	55.08	49.93	43.27	35.29	26.24	16.39
YBADJ	STCK3	6.04	-4.49	-13.80	-22.55	-31.95	-40.37
YBADJ	STCK3	-47.57	-53.33	-57.46	-59.85	-60.42	-60.30
YBADJ	STCK3	-55.08	-49.93	-43.27	-35.29	-26.24	-16.39
YBADJ	STCK3	-6.04	4.49	13.80	22.55	31.95	40.37
YBADJ	STCK3	47.57	53.33	57.46	59.85	60.42	60.30
YBADJ	STCK4	45.86	34.35	21.79	8.57	-4.92	-18.25
YBADJ	STCK4	-31.03	-42.86	-52.31	-60.03	-67.26	-72.44
YBADJ	STCK4	-75.42	-76.11	-74.49	-70.60	-64.57	-57.73
YBADJ	STCK4	-45.86	-34.35	-21.79	-8.57	4.92	18.25
YBADJ	STCK4	31.03	42.86	52.31	60.03	67.26	72.44
YBADJ	STCK4	75.42	76.11	74.49	70.60	64.57	57.73

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19371 Redlands Avenue East 2024-25.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"

PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"

SURFDATA 3171 2010

UAIRDATA 3190 2010

SITEDATA 99999 2010

PROFBASE 442.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19371 REDLANDS AVENUE EAST 2024-25.AD\PE00GALL.PLT" 31

SUMMFILE "19371 Redlands Avenue East 2024-25.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)
A Total of 6 Warning Message(s)
A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

SO W320	861	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	862	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	863	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	864	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1032	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	1032	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.2 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: 19371 Redlands Avenue East 2024-25.err
**File for Summary of Results: 19371 Redlands Avenue East 2024-25.sum

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2024-2025 *** 19:42:53
PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.13400E-04	480051.6	3742829.6	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.13400E-04	480051.1	3742865.2	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.13400E-04	480050.5	3742899.3	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.13400E-04	480047.9	3742937.8	439.6	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2024-2025 *** 19:42:53
PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002381	0	0.53060E-07	479894.1	3742773.0	440.3	0.00	1.70	6.52	YES	
L0002382	0	0.53060E-07	479897.7	3742772.6	440.2	0.00	1.70	6.52	YES	
L0002383	0	0.53060E-07	479901.3	3742772.3	440.2	0.00	1.70	6.52	YES	
L0002384	0	0.53060E-07	479905.0	3742771.9	440.2	0.00	1.70	6.52	YES	
L0002385	0	0.53060E-07	479908.6	3742771.6	440.1	0.00	1.70	6.52	YES	
L0002386	0	0.53060E-07	479912.3	3742771.2	440.1	0.00	1.70	6.52	YES	
L0002387	0	0.53060E-07	479915.9	3742770.9	440.1	0.00	1.70	6.52	YES	
L0002388	0	0.53060E-07	479919.5	3742770.3	440.1	0.00	1.70	6.52	YES	
L0002389	0	0.53060E-07	479923.0	3742769.1	440.1	0.00	1.70	6.52	YES	
L0002390	0	0.53060E-07	479926.4	3742767.9	440.0	0.00	1.70	6.52	YES	
L0002391	0	0.53060E-07	479929.9	3742766.7	440.0	0.00	1.70	6.52	YES	
L0002392	0	0.53060E-07	479933.5	3742766.5	440.0	0.00	1.70	6.52	YES	
L0002393	0	0.53060E-07	479937.1	3742766.6	440.0	0.00	1.70	6.52	YES	
L0002394	0	0.53060E-07	479940.8	3742766.6	440.0	0.00	1.70	6.52	YES	
L0002395	0	0.53060E-07	479944.5	3742766.6	439.9	0.00	1.70	6.52	YES	
L0002396	0	0.53060E-07	479948.1	3742766.7	439.9	0.00	1.70	6.52	YES	
L0002397	0	0.53060E-07	479951.8	3742766.7	439.9	0.00	1.70	6.52	YES	
L0002398	0	0.53060E-07	479955.4	3742766.7	439.9	0.00	1.70	6.52	YES	
L0002399	0	0.53060E-07	479959.1	3742766.8	439.9	0.00	1.70	6.52	YES	
L0002400	0	0.53060E-07	479962.7	3742766.8	439.9	0.00	1.70	6.52	YES	
L0002401	0	0.53060E-07	479966.4	3742766.8	439.9	0.00	1.70	6.52	YES	
L0002402	0	0.53060E-07	479970.1	3742766.9	439.9	0.00	1.70	6.52	YES	
L0002403	0	0.53060E-07	479973.7	3742766.9	439.9	0.00	1.70	6.52	YES	
L0002404	0	0.53060E-07	479977.4	3742766.9	439.9	0.00	1.70	6.52	YES	
L0002405	0	0.53060E-07	479981.0	3742767.0	439.9	0.00	1.70	6.52	YES	
L0002406	0	0.53060E-07	479984.7	3742767.0	439.9	0.00	1.70	6.52	YES	
L0002407	0	0.53060E-07	479988.3	3742767.0	439.8	0.00	1.70	6.52	YES	
L0002408	0	0.53060E-07	479992.0	3742767.1	439.8	0.00	1.70	6.52	YES	
L0002409	0	0.53060E-07	479995.7	3742767.1	439.8	0.00	1.70	6.52	YES	
L0002410	0	0.53060E-07	479999.3	3742767.1	439.8	0.00	1.70	6.52	YES	
L0002411	0	0.53060E-07	480003.0	3742767.2	439.8	0.00	1.70	6.52	YES	
L0002412	0	0.53060E-07	480006.6	3742767.2	439.8	0.00	1.70	6.52	YES	
L0002413	0	0.53060E-07	480010.3	3742767.2	439.8	0.00	1.70	6.52	YES	
L0002414	0	0.53060E-07	480014.0	3742767.3	439.7	0.00	1.70	6.52	YES	
L0002415	0	0.53060E-07	480017.6	3742767.3	439.7	0.00	1.70	6.52	YES	
L0002416	0	0.53060E-07	480021.3	3742767.3	439.7	0.00	1.70	6.52	YES	
L0002417	0	0.53060E-07	480024.9	3742767.4	439.7	0.00	1.70	6.52	YES	
L0002418	0	0.53060E-07	480028.6	3742767.4	439.7	0.00	1.70	6.52	YES	
L0002419	0	0.53060E-07	480032.2	3742767.5	439.7	0.00	1.70	6.52	YES	
L0002420	0	0.53060E-07	480035.9	3742767.5	439.7	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2024-2025

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002421	0	0.53060E-07	480039.6	3742767.5	439.6	0.00	1.70	6.52	YES	
L0002422	0	0.53060E-07	480043.2	3742767.6	439.6	0.00	1.70	6.52	YES	
L0002423	0	0.53060E-07	480046.9	3742767.6	439.6	0.00	1.70	6.52	YES	
L0002424	0	0.53060E-07	480050.5	3742767.6	439.6	0.00	1.70	6.52	YES	
L0002425	0	0.53060E-07	480054.2	3742767.7	439.6	0.00	1.70	6.52	YES	
L0002426	0	0.53060E-07	480057.8	3742767.7	439.6	0.00	1.70	6.52	YES	
L0002427	0	0.53060E-07	480061.2	3742768.0	439.5	0.00	1.70	6.52	YES	
L0002428	0	0.53060E-07	480061.3	3742771.6	439.5	0.00	1.70	6.52	YES	
L0002429	0	0.53060E-07	480061.3	3742775.3	439.5	0.00	1.70	6.52	YES	
L0002430	0	0.53060E-07	480061.3	3742779.0	439.5	0.00	1.70	6.52	YES	
L0002431	0	0.53060E-07	480061.3	3742782.6	439.5	0.00	1.70	6.52	YES	
L0002432	0	0.53060E-07	480061.3	3742786.3	439.5	0.00	1.70	6.52	YES	
L0002433	0	0.53060E-07	480061.4	3742789.9	439.5	0.00	1.70	6.52	YES	
L0002434	0	0.53060E-07	480061.4	3742793.6	439.5	0.00	1.70	6.52	YES	
L0002435	0	0.53060E-07	480061.4	3742797.2	439.5	0.00	1.70	6.52	YES	
L0002436	0	0.53060E-07	480061.4	3742800.9	439.5	0.00	1.70	6.52	YES	
L0002437	0	0.53060E-07	480061.5	3742804.6	439.5	0.00	1.70	6.52	YES	
L0002438	0	0.53060E-07	480061.5	3742808.2	439.4	0.00	1.70	6.52	YES	
L0002439	0	0.53060E-07	480061.5	3742811.9	439.4	0.00	1.70	6.52	YES	
L0002440	0	0.53060E-07	480061.5	3742815.5	439.4	0.00	1.70	6.52	YES	
L0002441	0	0.53060E-07	480061.6	3742819.2	439.4	0.00	1.70	6.52	YES	
L0002442	0	0.53060E-07	480061.6	3742822.8	439.4	0.00	1.70	6.52	YES	
L0002443	0	0.53060E-07	480061.6	3742826.5	439.4	0.00	1.70	6.52	YES	
L0002444	0	0.53060E-07	480061.6	3742830.2	439.4	0.00	1.70	6.52	YES	
L0002445	0	0.53060E-07	480061.6	3742833.8	439.4	0.00	1.70	6.52	YES	
L0002446	0	0.53060E-07	480061.7	3742837.5	439.4	0.00	1.70	6.52	YES	
L0002447	0	0.53060E-07	480061.7	3742841.1	439.4	0.00	1.70	6.52	YES	
L0002448	0	0.53060E-07	480061.7	3742844.8	439.4	0.00	1.70	6.52	YES	
L0002449	0	0.53060E-07	480061.7	3742848.4	439.4	0.00	1.70	6.52	YES	
L0002450	0	0.53060E-07	480061.8	3742852.1	439.4	0.00	1.70	6.52	YES	
L0002451	0	0.53060E-07	480061.8	3742855.8	439.4	0.00	1.70	6.52	YES	
L0002452	0	0.53060E-07	480061.8	3742859.4	439.4	0.00	1.70	6.52	YES	
L0002453	0	0.53060E-07	480061.8	3742863.1	439.4	0.00	1.70	6.52	YES	
L0002454	0	0.53060E-07	480061.8	3742866.7	439.4	0.00	1.70	6.52	YES	
L0002455	0	0.53060E-07	480061.9	3742870.4	439.4	0.00	1.70	6.52	YES	
L0002456	0	0.53060E-07	480061.9	3742874.1	439.4	0.00	1.70	6.52	YES	
L0002457	0	0.53060E-07	480061.9	3742877.7	439.4	0.00	1.70	6.52	YES	
L0002458	0	0.53060E-07	480061.9	3742881.4	439.4	0.00	1.70	6.52	YES	
L0002459	0	0.53060E-07	480062.0	3742885.0	439.4	0.00	1.70	6.52	YES	
L0002460	0	0.53060E-07	480062.0	3742888.7	439.5	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial

*** 08/17/21

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002461	0	0.53060E-07	480062.0	3742892.3	439.5	0.00	1.70	6.52	YES	
L0002462	0	0.53060E-07	480062.0	3742896.0	439.5	0.00	1.70	6.52	YES	
L0002463	0	0.53060E-07	480062.1	3742899.7	439.5	0.00	1.70	6.52	YES	
L0002464	0	0.53060E-07	480062.1	3742903.3	439.5	0.00	1.70	6.52	YES	
L0002465	0	0.53060E-07	480062.1	3742907.0	439.5	0.00	1.70	6.52	YES	
L0002466	0	0.53060E-07	480062.1	3742910.6	439.5	0.00	1.70	6.52	YES	
L0002467	0	0.53060E-07	480062.1	3742914.3	439.5	0.00	1.70	6.52	YES	
L0002468	0	0.53060E-07	480062.2	3742917.9	439.5	0.00	1.70	6.52	YES	
L0002469	0	0.53060E-07	480062.2	3742921.6	439.5	0.00	1.70	6.52	YES	
L0002470	0	0.53060E-07	480062.2	3742925.3	439.5	0.00	1.70	6.52	YES	
L0002471	0	0.53060E-07	480062.2	3742928.9	439.5	0.00	1.70	6.52	YES	
L0002472	0	0.53060E-07	480062.3	3742932.6	439.6	0.00	1.70	6.52	YES	
L0002473	0	0.53060E-07	480062.3	3742936.2	439.6	0.00	1.70	6.52	YES	
L0002474	0	0.53060E-07	480062.3	3742939.9	439.6	0.00	1.70	6.52	YES	
L0002475	0	0.53060E-07	480062.3	3742943.5	439.6	0.00	1.70	6.52	YES	
L0002476	0	0.53060E-07	480062.3	3742947.2	439.6	0.00	1.70	6.52	YES	
L0002477	0	0.53060E-07	480062.4	3742950.9	439.6	0.00	1.70	6.52	YES	
L0002478	0	0.53060E-07	480062.4	3742954.5	439.6	0.00	1.70	6.52	YES	
L0002479	0	0.53060E-07	480062.4	3742958.2	439.6	0.00	1.70	6.52	YES	
L0002480	0	0.53060E-07	480062.4	3742961.8	439.6	0.00	1.70	6.52	YES	
L0002481	0	0.53060E-07	480062.5	3742965.5	439.6	0.00	1.70	6.52	YES	
L0002482	0	0.53060E-07	480062.5	3742969.1	439.6	0.00	1.70	6.52	YES	
L0002483	0	0.53060E-07	480062.5	3742972.8	439.7	0.00	1.70	6.52	YES	
L0002484	0	0.53060E-07	480062.5	3742976.5	439.7	0.00	1.70	6.52	YES	
L0002485	0	0.53060E-07	480062.6	3742980.1	439.7	0.00	1.70	6.52	YES	
L0002486	0	0.53060E-07	480062.6	3742983.8	439.7	0.00	1.70	6.52	YES	
L0002487	0	0.53060E-07	480062.6	3742987.4	439.7	0.00	1.70	6.52	YES	
L0002488	0	0.53060E-07	480062.6	3742991.1	439.7	0.00	1.70	6.52	YES	
L0002489	0	0.53060E-07	480062.6	3742994.8	439.7	0.00	1.70	6.52	YES	
L0002490	0	0.53060E-07	480062.7	3742998.4	439.7	0.00	1.70	6.52	YES	
L0002491	0	0.53060E-07	480062.7	3743002.1	439.7	0.00	1.70	6.52	YES	
L0002492	0	0.53060E-07	480061.7	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002493	0	0.53060E-07	480058.1	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002494	0	0.53060E-07	480054.4	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002495	0	0.53060E-07	480050.8	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002496	0	0.53060E-07	480047.1	3743004.7	439.8	0.00	1.70	6.52	YES	
L0002497	0	0.53060E-07	480043.4	3743004.7	439.8	0.00	1.70	6.52	YES	
L0002498	0	0.53060E-07	480039.8	3743004.7	439.8	0.00	1.70	6.52	YES	
L0002499	0	0.53060E-07	480036.1	3743004.7	439.8	0.00	1.70	6.52	YES	

L0002537	0	0.53060E-07	479898.1	3742998.3	440.5	0.00	1.70	6.52	YES
L0002538	0	0.15530E-07	479887.3	3742774.4	440.4	0.00	1.70	0.85	YES
L0002539	0	0.15530E-07	479887.3	3742778.1	440.4	0.00	1.70	0.85	YES
L0002540	0	0.15530E-07	479887.3	3742781.8	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2024-2025

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002541	0	0.15530E-07	479887.3	3742785.4	440.4	0.00	1.70	0.85	YES	
L0002542	0	0.15530E-07	479887.4	3742789.1	440.4	0.00	1.70	0.85	YES	
L0002543	0	0.15530E-07	479887.4	3742792.7	440.4	0.00	1.70	0.85	YES	
L0002544	0	0.15530E-07	479887.4	3742796.4	440.4	0.00	1.70	0.85	YES	
L0002545	0	0.15530E-07	479887.4	3742800.0	440.4	0.00	1.70	0.85	YES	
L0002546	0	0.15530E-07	479887.5	3742803.7	440.4	0.00	1.70	0.85	YES	
L0002547	0	0.15530E-07	479887.5	3742807.4	440.4	0.00	1.70	0.85	YES	
L0002548	0	0.15530E-07	479887.5	3742811.0	440.5	0.00	1.70	0.85	YES	
L0002549	0	0.15530E-07	479887.5	3742814.7	440.5	0.00	1.70	0.85	YES	
L0002550	0	0.15530E-07	479887.5	3742818.3	440.5	0.00	1.70	0.85	YES	
L0002551	0	0.15530E-07	479887.6	3742822.0	440.5	0.00	1.70	0.85	YES	
L0002552	0	0.15530E-07	479887.6	3742825.6	440.5	0.00	1.70	0.85	YES	
L0002553	0	0.15530E-07	479887.6	3742829.3	440.5	0.00	1.70	0.85	YES	
L0002554	0	0.15530E-07	479887.6	3742833.0	440.5	0.00	1.70	0.85	YES	
L0002555	0	0.15530E-07	479887.7	3742836.6	440.5	0.00	1.70	0.85	YES	
L0002556	0	0.15530E-07	479887.7	3742840.3	440.5	0.00	1.70	0.85	YES	
L0002557	0	0.15530E-07	479887.7	3742843.9	440.5	0.00	1.70	0.85	YES	
L0002558	0	0.15530E-07	479887.7	3742847.6	440.5	0.00	1.70	0.85	YES	
L0002559	0	0.15530E-07	479887.8	3742851.2	440.5	0.00	1.70	0.85	YES	
L0002560	0	0.15530E-07	479887.8	3742854.9	440.5	0.00	1.70	0.85	YES	
L0002561	0	0.15530E-07	479887.8	3742858.6	440.5	0.00	1.70	0.85	YES	
L0002562	0	0.15530E-07	479887.8	3742862.2	440.5	0.00	1.70	0.85	YES	
L0002563	0	0.15530E-07	479887.8	3742865.9	440.5	0.00	1.70	0.85	YES	
L0002564	0	0.15530E-07	479887.9	3742869.5	440.5	0.00	1.70	0.85	YES	
L0002565	0	0.15530E-07	479887.9	3742873.2	440.5	0.00	1.70	0.85	YES	
L0002566	0	0.15530E-07	479887.9	3742876.9	440.5	0.00	1.70	0.85	YES	
L0002567	0	0.15530E-07	479887.9	3742880.5	440.5	0.00	1.70	0.85	YES	
L0002568	0	0.15530E-07	479888.0	3742884.2	440.5	0.00	1.70	0.85	YES	
L0002569	0	0.15530E-07	479888.0	3742887.8	440.5	0.00	1.70	0.85	YES	
L0002570	0	0.15530E-07	479888.0	3742891.5	440.5	0.00	1.70	0.85	YES	
L0002571	0	0.15530E-07	479888.0	3742895.1	440.5	0.00	1.70	0.85	YES	
L0002572	0	0.15530E-07	479888.0	3742898.8	440.5	0.00	1.70	0.85	YES	
L0002573	0	0.15530E-07	479888.1	3742902.5	440.5	0.00	1.70	0.85	YES	

L0002574	0	0.15530E-07	479888.1	3742906.1	440.4	0.00	1.70	0.85	YES
L0002575	0	0.15530E-07	479888.1	3742909.8	440.4	0.00	1.70	0.85	YES
L0002576	0	0.15530E-07	479888.1	3742913.4	440.4	0.00	1.70	0.85	YES
L0002577	0	0.15530E-07	479888.2	3742917.1	440.4	0.00	1.70	0.85	YES
L0002578	0	0.15530E-07	479888.2	3742920.7	440.4	0.00	1.70	0.85	YES
L0002579	0	0.15530E-07	479888.2	3742924.4	440.4	0.00	1.70	0.85	YES
L0002580	0	0.15530E-07	479888.2	3742928.1	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2024-2025

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002581	0	0.15530E-07	479888.2	3742931.7	440.5	0.00	1.70	0.85	YES	
L0002582	0	0.15530E-07	479888.3	3742935.4	440.5	0.00	1.70	0.85	YES	
L0002583	0	0.15530E-07	479888.3	3742939.0	440.5	0.00	1.70	0.85	YES	
L0002584	0	0.15530E-07	479888.3	3742942.7	440.5	0.00	1.70	0.85	YES	
L0002585	0	0.15530E-07	479888.3	3742946.3	440.5	0.00	1.70	0.85	YES	
L0002586	0	0.15530E-07	479888.4	3742950.0	440.5	0.00	1.70	0.85	YES	
L0002587	0	0.15530E-07	479888.4	3742953.7	440.5	0.00	1.70	0.85	YES	
L0002588	0	0.15530E-07	479888.4	3742957.3	440.5	0.00	1.70	0.85	YES	
L0002589	0	0.15530E-07	479888.4	3742961.0	440.5	0.00	1.70	0.85	YES	
L0002590	0	0.15530E-07	479888.4	3742964.6	440.5	0.00	1.70	0.85	YES	
L0002591	0	0.15530E-07	479888.5	3742968.3	440.5	0.00	1.70	0.85	YES	
L0002592	0	0.15530E-07	479888.5	3742971.9	440.5	0.00	1.70	0.85	YES	
L0002593	0	0.15530E-07	479888.5	3742975.6	440.5	0.00	1.70	0.85	YES	
L0002594	0	0.15530E-07	479888.5	3742979.3	440.5	0.00	1.70	0.85	YES	
L0002595	0	0.15530E-07	479888.6	3742982.9	440.5	0.00	1.70	0.85	YES	
L0002596	0	0.15530E-07	479888.6	3742986.6	440.6	0.00	1.70	0.85	YES	
L0002597	0	0.15530E-07	479888.6	3742990.2	440.6	0.00	1.70	0.85	YES	
L0002598	0	0.15530E-07	479888.6	3742993.9	440.6	0.00	1.70	0.85	YES	
L0002599	0	0.15530E-07	479888.6	3742997.6	440.6	0.00	1.70	0.85	YES	
L0002600	0	0.31210E-07	479888.7	3743003.9	440.6	0.00	1.70	0.85	YES	
L0002601	0	0.31210E-07	479888.7	3743007.6	440.6	0.00	1.70	0.85	YES	
L0002602	0	0.31210E-07	479888.8	3743011.2	440.6	0.00	1.70	0.85	YES	
L0002603	0	0.31210E-07	479888.8	3743014.9	440.6	0.00	1.70	0.85	YES	
L0002604	0	0.31210E-07	479888.9	3743018.5	440.6	0.00	1.70	0.85	YES	
L0002605	0	0.31210E-07	479888.9	3743022.2	440.7	0.00	1.70	0.85	YES	
L0002606	0	0.31210E-07	479889.0	3743025.9	440.7	0.00	1.70	0.85	YES	
L0002607	0	0.31210E-07	479889.1	3743029.5	440.7	0.00	1.70	0.85	YES	
L0002608	0	0.31210E-07	479889.1	3743033.2	440.7	0.00	1.70	0.85	YES	
L0002609	0	0.31210E-07	479889.2	3743036.8	440.7	0.00	1.70	0.85	YES	
L0002610	0	0.31210E-07	479889.2	3743040.5	440.7	0.00	1.70	0.85	YES	

L0002685	0	0.31210E-07	479893.4	3743314.8	440.5	0.00	1.70	0.85	YES
L0002686	0	0.31210E-07	479893.5	3743318.4	440.5	0.00	1.70	0.85	YES
L0002687	0	0.31210E-07	479893.5	3743322.1	440.5	0.00	1.70	0.85	YES
L0002688	0	0.31210E-07	479893.6	3743325.7	440.5	0.00	1.70	0.85	YES
L0002689	0	0.31210E-07	479893.6	3743329.4	440.5	0.00	1.70	0.85	YES
L0002690	0	0.31210E-07	479893.7	3743333.1	440.4	0.00	1.70	0.85	YES
L0002691	0	0.31210E-07	479893.7	3743336.7	440.4	0.00	1.70	0.85	YES
L0002692	0	0.31210E-07	479893.8	3743340.4	440.4	0.00	1.70	0.85	YES
L0002693	0	0.31210E-07	479894.4	3743344.0	440.4	0.00	1.70	0.85	YES
L0002694	0	0.31210E-07	479895.4	3743347.5	440.4	0.00	1.70	0.85	YES
L0002695	0	0.31210E-07	479896.4	3743351.0	440.3	0.00	1.70	0.85	YES
L0002696	0	0.31210E-07	479897.5	3743354.5	440.3	0.00	1.70	0.85	YES
L0002697	0	0.31210E-07	479898.4	3743358.0	440.3	0.00	1.70	0.85	YES
L0002698	0	0.31210E-07	479898.5	3743361.7	440.2	0.00	1.70	0.85	YES
L0002699	0	0.31210E-07	479898.6	3743365.3	440.2	0.00	1.70	0.85	YES
L0002700	0	0.31210E-07	479898.8	3743369.0	440.2	0.00	1.70	0.85	YES

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002701	0	0.31210E-07	479898.9	3743372.6	440.2	0.00	1.70	0.85	YES	
L0002702	0	0.31210E-07	479899.0	3743376.3	440.1	0.00	1.70	0.85	YES	
L0002703	0	0.31210E-07	479899.2	3743379.9	440.1	0.00	1.70	0.85	YES	
L0002704	0	0.31210E-07	479899.3	3743383.6	440.1	0.00	1.70	0.85	YES	
L0002705	0	0.31210E-07	479899.4	3743387.3	440.0	0.00	1.70	0.85	YES	
L0002706	0	0.31210E-07	479899.5	3743390.9	440.0	0.00	1.70	0.85	YES	
L0002707	0	0.31210E-07	479899.7	3743394.6	439.9	0.00	1.70	0.85	YES	
L0002708	0	0.31210E-07	479899.8	3743398.2	439.9	0.00	1.70	0.85	YES	
L0002709	0	0.31210E-07	479899.9	3743401.9	439.9	0.00	1.70	0.85	YES	
L0002710	0	0.31210E-07	479900.1	3743405.5	439.8	0.00	1.70	0.85	YES	
L0002711	0	0.31210E-07	479900.2	3743409.2	439.8	0.00	1.70	0.85	YES	
L0002712	0	0.31210E-07	479900.3	3743412.8	439.8	0.00	1.70	0.85	YES	
L0002713	0	0.31210E-07	479900.4	3743416.5	439.8	0.00	1.70	0.85	YES	
L0002714	0	0.31210E-07	479900.6	3743420.2	439.8	0.00	1.70	0.85	YES	
L0002715	0	0.31210E-07	479900.7	3743423.8	439.8	0.00	1.70	0.85	YES	
L0002716	0	0.31210E-07	479900.8	3743427.5	439.8	0.00	1.70	0.85	YES	
L0002717	0	0.31210E-07	479901.0	3743431.1	439.8	0.00	1.70	0.85	YES	
L0002718	0	0.31210E-07	479901.1	3743434.8	439.8	0.00	1.70	0.85	YES	
L0002719	0	0.31210E-07	479901.2	3743438.4	439.8	0.00	1.70	0.85	YES	
L0002720	0	0.31210E-07	479901.3	3743442.1	439.8	0.00	1.70	0.85	YES	
L0002721	0	0.31210E-07	479901.5	3743445.7	439.8	0.00	1.70	0.85	YES	

*** MODELOPTS: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs								
-----	-----								
ALL	L0002381	, L0002382	, L0002383	, L0002384	, L0002385	, L0002386	, L0002387	, L0002388	,
	L0002389	, L0002390	, L0002391	, L0002392	, L0002393	, L0002394	, L0002395	, L0002396	,
	L0002397	, L0002398	, L0002399	, L0002400	, L0002401	, L0002402	, L0002403	, L0002404	,
	L0002405	, L0002406	, L0002407	, L0002408	, L0002409	, L0002410	, L0002411	, L0002412	,
	L0002413	, L0002414	, L0002415	, L0002416	, L0002417	, L0002418	, L0002419	, L0002420	,
	L0002421	, L0002422	, L0002423	, L0002424	, L0002425	, L0002426	, L0002427	, L0002428	,
	L0002429	, L0002430	, L0002431	, L0002432	, L0002433	, L0002434	, L0002435	, L0002436	,
	L0002437	, L0002438	, L0002439	, L0002440	, L0002441	, L0002442	, L0002443	, L0002444	,
	L0002445	, L0002446	, L0002447	, L0002448	, L0002449	, L0002450	, L0002451	, L0002452	,
	L0002453	, L0002454	, L0002455	, L0002456	, L0002457	, L0002458	, L0002459	, L0002460	,
	L0002461	, L0002462	, L0002463	, L0002464	, L0002465	, L0002466	, L0002467	, L0002468	,
	L0002469	, L0002470	, L0002471	, L0002472	, L0002473	, L0002474	, L0002475	, L0002476	,
	L0002477	, L0002478	, L0002479	, L0002480	, L0002481	, L0002482	, L0002483	, L0002484	,
	L0002485	, L0002486	, L0002487	, L0002488	, L0002489	, L0002490	, L0002491	, L0002492	,
	L0002493	, L0002494	, L0002495	, L0002496	, L0002497	, L0002498	, L0002499	, L0002500	,
	L0002501	, L0002502	, L0002503	, L0002504	, L0002505	, L0002506	, L0002507	, L0002508	,
	L0002509	, L0002510	, L0002511	, L0002512	, L0002513	, L0002514	, L0002515	, L0002516	,
	L0002517	, L0002518	, L0002519	, L0002520	, L0002521	, L0002522	, L0002523	, L0002524	,
	L0002525	, L0002526	, L0002527	, L0002528	, L0002529	, L0002530	, L0002531	, L0002532	,
	L0002533	, L0002534	, L0002535	, L0002536	, L0002537	, L0002538	, L0002539	, L0002540	,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
-----	-----	-----	-----	-----	-----	-----	-----	-----							
L0002541	,	L0002542	,	L0002543	,	L0002544	,	L0002545	,	L0002546	,	L0002547	,	L0002548	,
L0002549	,	L0002550	,	L0002551	,	L0002552	,	L0002553	,	L0002554	,	L0002555	,	L0002556	,
L0002557	,	L0002558	,	L0002559	,	L0002560	,	L0002561	,	L0002562	,	L0002563	,	L0002564	,
L0002565	,	L0002566	,	L0002567	,	L0002568	,	L0002569	,	L0002570	,	L0002571	,	L0002572	,
L0002573	,	L0002574	,	L0002575	,	L0002576	,	L0002577	,	L0002578	,	L0002579	,	L0002580	,
L0002581	,	L0002582	,	L0002583	,	L0002584	,	L0002585	,	L0002586	,	L0002587	,	L0002588	,
L0002589	,	L0002590	,	L0002591	,	L0002592	,	L0002593	,	L0002594	,	L0002595	,	L0002596	,
L0002597	,	L0002598	,	L0002599	,	L0002600	,	L0002601	,	L0002602	,	L0002603	,	L0002604	,
L0002605	,	L0002606	,	L0002607	,	L0002608	,	L0002609	,	L0002610	,	L0002611	,	L0002612	,
L0002613	,	L0002614	,	L0002615	,	L0002616	,	L0002617	,	L0002618	,	L0002619	,	L0002620	,
L0002621	,	L0002622	,	L0002623	,	L0002624	,	L0002625	,	L0002626	,	L0002627	,	L0002628	,
L0002629	,	L0002630	,	L0002631	,	L0002632	,	L0002633	,	L0002634	,	L0002635	,	L0002636	,
L0002637	,	L0002638	,	L0002639	,	L0002640	,	L0002641	,	L0002642	,	L0002643	,	L0002644	,
L0002645	,	L0002646	,	L0002647	,	L0002648	,	L0002649	,	L0002650	,	L0002651	,	L0002652	,
L0002653	,	L0002654	,	L0002655	,	L0002656	,	L0002657	,	L0002658	,	L0002659	,	L0002660	,
L0002661	,	L0002662	,	L0002663	,	L0002664	,	L0002665	,	L0002666	,	L0002667	,	L0002668	,
L0002669	,	L0002670	,	L0002671	,	L0002672	,	L0002673	,	L0002674	,	L0002675	,	L0002676	,
L0002677	,	L0002678	,	L0002679	,	L0002680	,	L0002681	,	L0002682	,	L0002683	,	L0002684	,
L0002685	,	L0002686	,	L0002687	,	L0002688	,	L0002689	,	L0002690	,	L0002691	,	L0002692	,
L0002693	,	L0002694	,	L0002695	,	L0002696	,	L0002697	,	L0002698	,	L0002699	,	L0002700	,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs								
-----	-----								
	L0002701	, L0002702	, L0002703	, L0002704	, L0002705	, L0002706	, L0002707	, L0002708	,
	L0002709	, L0002710	, L0002711	, L0002712	, L0002713	, L0002714	, L0002715	, L0002716	,
	L0002717	, L0002718	, L0002719	, L0002720	, L0002721	, L0002722	, L0002723	, L0002724	,
	L0002725	, L0002726	, L0002727	, L0002728	, L0002729	, L0002730	, L0002731	, L0002732	,
	L0002733	, L0002734	, L0002735	, L0002736	, L0002737	, L0002738	, L0002739	, L0002740	,
	L0002741	, L0002742	, L0002743	, L0002744	, L0002745	, L0002746	, L0002747	, L0002748	,
	L0002749	, L0002750	, L0002751	, L0002752	, L0002753	, L0002754	, L0002755	, L0002756	,
	STCK1	, STCK2	, STCK3	, STCK4	,				

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
L0002388	2189641.	L0002381	, L0002382	, L0002383	, L0002384	, L0002385	, L0002386	, L0002387	,
	,								
	L0002389	, L0002390	, L0002391	, L0002392	, L0002393	, L0002394	, L0002395	, L0002396	,
	L0002397	, L0002398	, L0002399	, L0002400	, L0002401	, L0002402	, L0002403	, L0002404	,
	L0002405	, L0002406	, L0002407	, L0002408	, L0002409	, L0002410	, L0002411	, L0002412	,
	L0002413	, L0002414	, L0002415	, L0002416	, L0002417	, L0002418	, L0002419	, L0002420	,

L0002733 , L0002734 , L0002735 , L0002736 , L0002737 , L0002738 , L0002739 , L0002740 ,
 L0002741 , L0002742 , L0002743 , L0002744 , L0002745 , L0002746 , L0002747 , L0002748 ,
 L0002749 , L0002750 , L0002751 , L0002752 , L0002753 , L0002754 , L0002755 , L0002756 ,
 STCK1 , STCK2 , STCK3 , STCK4 ,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-72.0	68.3	2	14.0	180.5	244.9	-89.3	74.8
3	14.0	207.0	246.7	-104.0	79.1	4	14.0	227.1	241.0	-115.5	81.0
5	14.0	240.4	228.0	-123.4	80.3	6	14.0	246.4	208.1	-127.7	77.3
7	14.0	244.9	181.8	-128.0	71.9	8	14.0	235.9	150.0	-124.5	64.3
9	14.0	222.0	115.9	-119.4	55.9	10	14.0	235.7	148.6	-142.6	45.8
11	14.0	244.9	180.5	-165.1	33.1	12	14.0	246.7	207.0	-182.6	19.4
13	14.0	241.0	227.1	-194.5	5.0	14	14.0	228.0	240.4	-200.6	-9.4
15	14.0	208.1	246.4	-200.5	-23.6	16	14.0	181.8	244.9	-194.3	-37.1
17	14.0	150.0	235.9	-182.3	-49.4	18	14.0	115.9	222.0	-166.8	-61.4
19	14.0	148.6	235.7	-163.7	-68.3	20	14.0	180.5	244.9	-155.6	-74.8
21	14.0	207.0	246.7	-142.8	-79.1	22	14.0	227.1	241.0	-125.6	-81.0
23	14.0	240.4	228.0	-104.6	-80.3	24	14.0	246.4	208.1	-80.4	-77.3
25	14.0	244.9	181.8	-53.8	-71.9	26	14.0	235.9	150.0	-25.5	-64.3
27	14.0	222.0	115.9	3.5	-55.9	28	14.0	235.7	148.6	-6.0	-45.8
29	14.0	244.9	180.5	-15.4	-33.1	30	14.0	246.7	207.0	-24.4	-19.4
31	14.0	241.0	227.1	-32.6	-5.0	32	14.0	228.0	240.4	-39.9	9.4
33	14.0	208.1	246.4	-45.9	23.6	34	14.0	181.8	244.9	-50.5	37.1
35	14.0	150.0	235.9	-53.6	49.4	36	14.0	115.9	222.0	-55.1	61.4

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-106.9	61.7	2	14.0	180.5	244.9	-122.6	62.2
3	14.0	207.0	246.7	-134.5	60.9	4	14.0	227.1	241.0	-142.4	57.7
5	14.0	240.4	228.0	-145.9	52.8	6	14.0	246.4	208.1	-145.0	46.3
7	14.0	244.9	181.8	-139.7	38.3	8	14.0	235.9	150.0	-130.2	29.2
9	14.0	222.0	115.9	-118.9	20.3	10	14.0	235.7	148.6	-135.9	10.9
11	14.0	244.9	180.5	-152.5	-0.1	12	14.0	246.7	207.0	-164.4	-11.2
13	14.0	241.0	227.1	-171.3	-21.9	14	14.0	228.0	240.4	-173.0	-31.9
15	14.0	208.1	246.4	-169.5	-41.0	16	14.0	181.8	244.9	-160.8	-48.8
17	14.0	150.0	235.9	-147.2	-55.1	18	14.0	115.9	222.0	-131.3	-61.0
19	14.0	148.6	235.7	-128.8	-61.7	20	14.0	180.5	244.9	-122.3	-62.2

21	14.0,	207.0,	246.7,	-112.2,	-60.9,	22	14.0,	227.1,	241.0,	-98.6,	-57.7,
23	14.0,	240.4,	228.0,	-82.1,	-52.8,	24	14.0,	246.4,	208.1,	-63.0,	-46.3,
25	14.0,	244.9,	181.8,	-42.1,	-38.3,	26	14.0,	235.9,	150.0,	-19.8,	-29.2,
27	14.0,	222.0,	115.9,	3.0,	-20.3,	28	14.0,	235.7,	148.6,	-12.6,	-10.9,
29	14.0,	244.9,	180.5,	-28.0,	0.1,	30	14.0,	246.7,	207.0,	-42.6,	11.2,
31	14.0,	241.0,	227.1,	-55.8,	21.9,	32	14.0,	228.0,	240.4,	-67.4,	31.9,
33	14.0,	208.1,	246.4,	-76.9,	41.0,	34	14.0,	181.8,	244.9,	-84.1,	48.8,
35	14.0,	150.0,	235.9,	-88.7,	55.1,	36	14.0,	115.9,	222.0,	-90.7,	61.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-140.4,	55.1,	2	14.0,	180.5,	244.9,	-154.4,	49.9,
3	14.0,	207.0,	246.7,	-163.7,	43.3,	4	14.0,	227.1,	241.0,	-168.1,	35.3,
5	14.0,	240.4,	228.0,	-167.3,	26.2,	6	14.0,	246.4,	208.1,	-161.5,	16.4,
7	14.0,	244.9,	181.8,	-150.7,	6.0,	8	14.0,	235.9,	150.0,	-135.4,	-4.5,
9	14.0,	222.0,	115.9,	-118.3,	-13.8,	10	14.0,	235.7,	148.6,	-129.4,	-22.6,
11	14.0,	244.9,	180.5,	-140.2,	-31.9,	12	14.0,	246.7,	207.0,	-146.8,	-40.4,
13	14.0,	241.0,	227.1,	-148.9,	-47.6,	14	14.0,	228.0,	240.4,	-146.5,	-53.3,
15	14.0,	208.1,	246.4,	-139.6,	-57.5,	16	14.0,	181.8,	244.9,	-128.5,	-59.8,
17	14.0,	150.0,	235.9,	-113.5,	-60.4,	18	14.0,	115.9,	222.0,	-97.2,	-60.3,
19	14.0,	148.6,	235.7,	-95.3,	-55.1,	20	14.0,	180.5,	244.9,	-90.5,	-49.9,
21	14.0,	207.0,	246.7,	-83.0,	-43.3,	22	14.0,	227.1,	241.0,	-73.0,	-35.3,
23	14.0,	240.4,	228.0,	-60.7,	-26.2,	24	14.0,	246.4,	208.1,	-46.6,	-16.4,
25	14.0,	244.9,	181.8,	-31.1,	-6.0,	26	14.0,	235.9,	150.0,	-14.6,	4.5,
27	14.0,	222.0,	115.9,	2.3,	13.8,	28	14.0,	235.7,	148.6,	-19.2,	22.6,
29	14.0,	244.9,	180.5,	-40.3,	31.9,	30	14.0,	246.7,	207.0,	-60.2,	40.4,
31	14.0,	241.0,	227.1,	-78.3,	47.6,	32	14.0,	228.0,	240.4,	-94.0,	53.3,
33	14.0,	208.1,	246.4,	-106.8,	57.5,	34	14.0,	181.8,	244.9,	-116.4,	59.8,
35	14.0,	150.0,	235.9,	-122.5,	60.4,	36	14.0,	115.9,	222.0,	-124.8,	60.3,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-177.9,	45.9,	2	14.0,	180.5,	244.9,	-189.7,	34.3,
3	14.0,	207.0,	246.7,	-195.8,	21.8,	4	14.0,	227.1,	241.0,	-195.9,	8.6,
5	14.0,	240.4,	228.0,	-190.1,	-4.9,	6	14.0,	246.4,	208.1,	-178.5,	-18.2,
7	14.0,	244.9,	181.8,	-161.5,	-31.0,	8	14.0,	235.9,	150.0,	-139.6,	-42.9,
9	14.0,	222.0,	115.9,	-115.7,	-52.3,	10	14.0,	235.7,	148.6,	-120.1,	-60.0,
11	14.0,	244.9,	180.5,	-124.6,	-67.3,	12	14.0,	246.7,	207.0,	-125.3,	-72.4,
13	14.0,	241.0,	227.1,	-122.1,	-75.4,	14	14.0,	228.0,	240.4,	-115.3,	-76.1,
15	14.0,	208.1,	246.4,	-105.0,	-74.5,	16	14.0,	181.8,	244.9,	-91.4,	-70.6,
17	14.0,	150.0,	235.9,	-75.1,	-64.6,	18	14.0,	115.9,	222.0,	-58.7,	-57.7,
19	14.0,	148.6,	235.7,	-57.8,	-45.9,	20	14.0,	180.5,	244.9,	-55.2,	-34.3,
21	14.0,	207.0,	246.7,	-50.9,	-21.8,	22	14.0,	227.1,	241.0,	-45.1,	-8.6,
23	14.0,	240.4,	228.0,	-37.9,	4.9,	24	14.0,	246.4,	208.1,	-29.5,	18.2,
25	14.0,	244.9,	181.8,	-20.3,	31.0,	26	14.0,	235.9,	150.0,	-10.4,	42.9,
27	14.0,	222.0,	115.9,	-0.2,	52.3,	28	14.0,	235.7,	148.6,	-28.4,	60.0,
29	14.0,	244.9,	180.5,	-55.9,	67.3,	30	14.0,	246.7,	207.0,	-81.7,	72.4,
31	14.0,	241.0,	227.1,	-105.0,	75.4,	32	14.0,	228.0,	240.4,	-125.1,	76.1,
33	14.0,	208.1,	246.4,	-141.4,	74.5,	34	14.0,	181.8,	244.9,	-153.5,	70.6,

35 14.0, 150.0, 235.9, -160.8, 64.6, 36 14.0, 115.9, 222.0, -163.3, 57.7,

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

479078.2, 479169.0, 479259.9, 479350.8, 479441.7, 479532.6, 479623.4, 479714.3, 479805.2, 479896.1,
479987.0, 480077.8, 480168.7, 480259.6, 480350.5, 480441.4, 480532.2, 480623.1, 480714.0, 480804.9,
480895.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3742099.5, 3742178.4, 3742257.3, 3742336.2, 3742415.1, 3742494.0, 3742573.0, 3742651.9, 3742730.8, 3742809.7,
3742888.6, 3742967.5, 3743046.4, 3743125.3, 3743204.2, 3743283.1, 3743362.1, 3743441.0, 3743519.9, 3743598.8,
3743677.7,

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2024-2025 *** 19:42:53
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	479078.16	479169.04	479259.92	479350.80	479441.68	479532.56	479623.44	479714.32	479805.20
3743677.70	444.10	443.80	443.20	442.70	442.30	441.10	440.40	440.50	440.50
3743598.79	443.60	443.50	443.10	442.60	442.30	440.40	440.20	439.80	439.30
3743519.88	443.70	443.80	443.50	442.80	441.80	440.50	440.40	440.40	439.70
3743440.97	443.70	443.60	443.20	442.80	441.10	440.20	439.40	439.60	439.50
3743362.06	443.60	443.30	442.80	442.30	442.00	441.00	440.50	440.70	440.00
3743283.15	443.80	443.30	442.20	441.90	440.80	441.30	441.10	440.90	440.40
3743204.24	444.00	443.40	442.60	442.50	441.60	441.10	441.30	441.10	440.70
3743125.33	444.00	443.00	442.70	442.40	442.10	440.50	440.30	440.40	441.00
3743046.42	443.90	443.00	442.70	442.40	442.20	441.90	441.40	441.20	440.80
3742967.51	443.70	443.10	442.60	442.20	442.00	441.70	441.30	440.90	440.60
3742888.60	443.50	443.00	442.60	442.20	442.00	441.70	441.40	441.00	440.70
3742809.69	442.90	442.80	442.20	442.00	441.80	441.30	440.50	440.70	440.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	480714.00	480804.88	480895.76	X-COORD (METERS)
3743677.70	440.70	441.10	441.40	
3743598.79	441.00	441.60	442.10	
3743519.88	441.10	441.60	441.70	
3743440.97	441.00	441.50	441.30	
3743362.06	440.60	440.90	440.70	
3743283.15	439.20	439.30	439.50	
3743204.24	439.20	439.40	439.60	
3743125.33	439.70	440.20	440.60	
3743046.42	439.30	440.60	441.00	
3742967.51	436.00	439.90	440.20	
3742888.60	435.50	439.40	440.40	
3742809.69	436.60	437.10	439.80	
3742730.78	437.70	435.20	439.30	
3742651.87	437.80	435.00	437.90	
3742572.96	437.90	435.80	437.50	
3742494.05	437.80	437.20	437.10	
3742415.14	438.00	437.30	435.10	
3742336.23	438.00	437.30	435.10	
3742257.32	437.80	437.20	435.90	
3742178.41	437.40	437.10	436.00	
3742099.50	437.50	436.90	435.60	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2024-2025 *** 19:42:53
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(479945.7, 3742742.3,	440.0,	440.0,	0.0);	(479918.5, 3742530.0,	439.9,	439.9,	0.0);
(480257.8, 3742923.6,	438.8,	438.8,	0.0);	(480244.2, 3743075.6,	439.2,	439.2,	0.0);
(480129.0, 3743128.0,	439.8,	439.8,	0.0);	(480038.2, 3743314.8,	439.8,	439.8,	0.0);
(479607.4, 3742910.0,	441.5,	441.5,	0.0);	(479740.5, 3742698.9,	440.3,	440.3,	0.0);
(479757.3, 3743380.4,	440.4,	440.4,	0.0);				

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

3743598.79	0.00070	0.00052	0.00043	0.00037	0.00032	0.00027	0.00022	0.00018	0.00015
3743519.88	0.00261	0.00070	0.00054	0.00046	0.00039	0.00032	0.00026	0.00021	0.00017
3743440.97	0.00380	0.00089	0.00069	0.00057	0.00047	0.00038	0.00030	0.00023	0.00018
3743362.06	0.00360	0.00110	0.00086	0.00070	0.00057	0.00044	0.00034	0.00026	0.00020
3743283.15	0.00361	0.00137	0.00109	0.00087	0.00067	0.00051	0.00037	0.00028	0.00022
3743204.24	0.00432	0.00174	0.00139	0.00107	0.00078	0.00056	0.00040	0.00030	0.00023
3743125.33	0.00474	0.00237	0.00190	0.00131	0.00087	0.00059	0.00042	0.00031	0.00023
3743046.42	0.00480	0.00425	0.00314	0.00156	0.00092	0.00061	0.00043	0.00031	0.00024
3742967.51	0.00340	0.00391	0.00470	0.00175	0.00090	0.00058	0.00041	0.00031	0.00023
3742888.60	0.00270	0.00381	0.00519	0.00188	0.00088	0.00057	0.00041	0.00030	0.00024
3742809.69	0.00263	0.00269	0.00508	0.00223	0.00098	0.00061	0.00042	0.00031	0.00024
3742730.78	0.00164	0.00246	0.00345	0.00215	0.00114	0.00068	0.00046	0.00033	0.00025
3742651.87	0.00091	0.00130	0.00174	0.00177	0.00119	0.00074	0.00049	0.00035	0.00026
3742572.96	0.00069	0.00089	0.00115	0.00131	0.00109	0.00075	0.00051	0.00036	0.00026
3742494.05	0.00054	0.00067	0.00083	0.00097	0.00091	0.00071	0.00050	0.00036	0.00026
3742415.14	0.00044	0.00053	0.00063	0.00072	0.00074	0.00062	0.00047	0.00035	0.00026
3742336.23	0.00036	0.00042	0.00049	0.00055	0.00058	0.00052	0.00042	0.00032	0.00025
3742257.32	0.00030	0.00034	0.00039	0.00043	0.00045	0.00043	0.00036	0.00029	0.00023
3742178.41	0.00025	0.00028	0.00031	0.00034	0.00035	0.00034	0.00031	0.00026	0.00021
3742099.50	0.00020	0.00023	0.00025	0.00027	0.00028	0.00028	0.00025	0.00022	0.00019

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0002381 , L0002382 , L0002383 , L0002384 , L0002385 ,
 L0002386 , L0002387 , L0002388 , L0002389 , L0002390 , L0002391 , L0002392 , L0002393 ,
 L0002394 , L0002395 , L0002396 , L0002397 , L0002398 , L0002399 , L0002400 , L0002401 ,
 L0002402 , L0002403 , L0002404 , L0002405 , L0002406 , L0002407 , L0002408 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	480714.00	480804.88	480895.76
3743677.70	0.00011	0.00009	0.00008
3743598.79	0.00012	0.00010	0.00009
3743519.88	0.00013	0.00011	0.00009
3743440.97	0.00015	0.00012	0.00010
3743362.06	0.00016	0.00013	0.00011
3743283.15	0.00017	0.00014	0.00011
3743204.24	0.00018	0.00015	0.00012
3743125.33	0.00019	0.00015	0.00012
3743046.42	0.00019	0.00015	0.00012
3742967.51	0.00018	0.00015	0.00012
3742888.60	0.00018	0.00015	0.00012

3742809.69	0.00019	0.00015	0.00013
3742730.78	0.00019	0.00015	0.00013
3742651.87	0.00020	0.00015	0.00013
3742572.96	0.00020	0.00015	0.00013
3742494.05	0.00020	0.00015	0.00012
3742415.14	0.00020	0.00015	0.00012
3742336.23	0.00019	0.00015	0.00012
3742257.32	0.00018	0.00014	0.00011
3742178.41	0.00017	0.00013	0.00011
3742099.50	0.00015	0.00013	0.00010

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2024-2025 *** 19:42:53
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0002381 , L0002382 , L0002383 , L0002384 , L0002385 ,
 L0002386 , L0002387 , L0002388 , L0002389 , L0002390 , L0002391 , L0002392 , L0002393 ,
 L0002394 , L0002395 , L0002396 , L0002397 , L0002398 , L0002399 , L0002400 , L0002401 ,
 L0002402 , L0002403 , L0002404 , L0002405 , L0002406 , L0002407 , L0002408 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479945.68	3742742.32	0.00247	479918.48	3742530.00	0.00063
480257.79	3742923.65	0.00089	480244.23	3743075.64	0.00098
480128.98	3743127.99	0.00155	480038.23	3743314.81	0.00109
479607.39	3742910.04	0.00050	479740.51	3742698.91	0.00061
479757.35	3743380.40	0.00075			

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00519 AT (480077.84, 3742888.60, 439.40, 439.40, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00508 AT (480077.84, 3742809.69, 439.40, 439.40, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00480 AT (479896.08, 3743046.42, 440.70, 440.70, 0.00)	GC	UCART1


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** Lakes Environmental AERMOD MPI
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*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/17/2021
** File: C:\Lakes\19371 Redlands Avenue East 2026-39\19371 Redlands Avenue East 2026-39.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE 19371 Redlands Ave East Industrial
  TITLETWO DPM Concentrations - 2026-2039
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2189641 Riverside_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "19371 Redlands Avenue East 2026-39.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Northern project drive to loading to southern project drive
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 6.96E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 9
** 479892.242, 3742773.165, 440.27, 0.00, 1.70
** 479918.594, 3742770.631, 440.11, 0.00, 1.70

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** 479930.481, 3742766.507, 440.01, 0.00, 1.70
 ** 480061.235, 3742767.720, 439.55, 0.00, 1.70
 ** 480062.694, 3743002.863, 439.74, 0.00, 1.70
 ** 480062.670, 3743004.786, 439.74, 0.00, 1.70
 ** 479934.893, 3743004.476, 440.18, 0.00, 1.70
 ** 479917.905, 3742998.550, 440.32, 0.00, 1.70
 ** 479894.578, 3742998.262, 440.60, 0.00, 1.70

** -----

LOCATION	L0002757	VOLUME	479894.062	3742772.990	440.28
LOCATION	L0002758	VOLUME	479897.703	3742772.640	440.24
LOCATION	L0002759	VOLUME	479901.344	3742772.290	440.21
LOCATION	L0002760	VOLUME	479904.985	3742771.940	440.17
LOCATION	L0002761	VOLUME	479908.625	3742771.590	440.14
LOCATION	L0002762	VOLUME	479912.266	3742771.240	440.11
LOCATION	L0002763	VOLUME	479915.907	3742770.890	440.09
LOCATION	L0002764	VOLUME	479919.499	3742770.317	440.07
LOCATION	L0002765	VOLUME	479922.955	3742769.119	440.05
LOCATION	L0002766	VOLUME	479926.410	3742767.920	440.03
LOCATION	L0002767	VOLUME	479929.866	3742766.721	440.01
LOCATION	L0002768	VOLUME	479933.488	3742766.535	439.99
LOCATION	L0002769	VOLUME	479937.145	3742766.569	439.97
LOCATION	L0002770	VOLUME	479940.802	3742766.603	439.96
LOCATION	L0002771	VOLUME	479944.460	3742766.637	439.95
LOCATION	L0002772	VOLUME	479948.117	3742766.671	439.94
LOCATION	L0002773	VOLUME	479951.775	3742766.705	439.92
LOCATION	L0002774	VOLUME	479955.432	3742766.739	439.91
LOCATION	L0002775	VOLUME	479959.090	3742766.773	439.90
LOCATION	L0002776	VOLUME	479962.747	3742766.807	439.89
LOCATION	L0002777	VOLUME	479966.405	3742766.841	439.88
LOCATION	L0002778	VOLUME	479970.062	3742766.875	439.87
LOCATION	L0002779	VOLUME	479973.719	3742766.909	439.87
LOCATION	L0002780	VOLUME	479977.377	3742766.943	439.86
LOCATION	L0002781	VOLUME	479981.034	3742766.976	439.85
LOCATION	L0002782	VOLUME	479984.692	3742767.010	439.85
LOCATION	L0002783	VOLUME	479988.349	3742767.044	439.84
LOCATION	L0002784	VOLUME	479992.007	3742767.078	439.82
LOCATION	L0002785	VOLUME	479995.664	3742767.112	439.81
LOCATION	L0002786	VOLUME	479999.322	3742767.146	439.80
LOCATION	L0002787	VOLUME	480002.979	3742767.180	439.78
LOCATION	L0002788	VOLUME	480006.636	3742767.214	439.77
LOCATION	L0002789	VOLUME	480010.294	3742767.248	439.75
LOCATION	L0002790	VOLUME	480013.951	3742767.282	439.74
LOCATION	L0002791	VOLUME	480017.609	3742767.316	439.72
LOCATION	L0002792	VOLUME	480021.266	3742767.350	439.71
LOCATION	L0002793	VOLUME	480024.924	3742767.384	439.69
LOCATION	L0002794	VOLUME	480028.581	3742767.417	439.68
LOCATION	L0002795	VOLUME	480032.238	3742767.451	439.66
LOCATION	L0002796	VOLUME	480035.896	3742767.485	439.65
LOCATION	L0002797	VOLUME	480039.553	3742767.519	439.63
LOCATION	L0002798	VOLUME	480043.211	3742767.553	439.62
LOCATION	L0002799	VOLUME	480046.868	3742767.587	439.60

LOCATION	L0002800	VOLUME	480050.526	3742767.621	439.59
LOCATION	L0002801	VOLUME	480054.183	3742767.655	439.57
LOCATION	L0002802	VOLUME	480057.841	3742767.689	439.56
LOCATION	L0002803	VOLUME	480061.237	3742767.983	439.54
LOCATION	L0002804	VOLUME	480061.259	3742771.641	439.54
LOCATION	L0002805	VOLUME	480061.282	3742775.298	439.53
LOCATION	L0002806	VOLUME	480061.305	3742778.956	439.52
LOCATION	L0002807	VOLUME	480061.328	3742782.613	439.51
LOCATION	L0002808	VOLUME	480061.350	3742786.271	439.50
LOCATION	L0002809	VOLUME	480061.373	3742789.928	439.49
LOCATION	L0002810	VOLUME	480061.396	3742793.586	439.48
LOCATION	L0002811	VOLUME	480061.418	3742797.244	439.48
LOCATION	L0002812	VOLUME	480061.441	3742800.901	439.47
LOCATION	L0002813	VOLUME	480061.464	3742804.559	439.46
LOCATION	L0002814	VOLUME	480061.486	3742808.216	439.45
LOCATION	L0002815	VOLUME	480061.509	3742811.874	439.45
LOCATION	L0002816	VOLUME	480061.532	3742815.531	439.44
LOCATION	L0002817	VOLUME	480061.555	3742819.189	439.43
LOCATION	L0002818	VOLUME	480061.577	3742822.846	439.43
LOCATION	L0002819	VOLUME	480061.600	3742826.504	439.42
LOCATION	L0002820	VOLUME	480061.623	3742830.161	439.42
LOCATION	L0002821	VOLUME	480061.645	3742833.819	439.42
LOCATION	L0002822	VOLUME	480061.668	3742837.476	439.41
LOCATION	L0002823	VOLUME	480061.691	3742841.134	439.41
LOCATION	L0002824	VOLUME	480061.713	3742844.791	439.40
LOCATION	L0002825	VOLUME	480061.736	3742848.449	439.40
LOCATION	L0002826	VOLUME	480061.759	3742852.106	439.40
LOCATION	L0002827	VOLUME	480061.782	3742855.764	439.41
LOCATION	L0002828	VOLUME	480061.804	3742859.422	439.41
LOCATION	L0002829	VOLUME	480061.827	3742863.079	439.42
LOCATION	L0002830	VOLUME	480061.850	3742866.737	439.42
LOCATION	L0002831	VOLUME	480061.872	3742870.394	439.43
LOCATION	L0002832	VOLUME	480061.895	3742874.052	439.44
LOCATION	L0002833	VOLUME	480061.918	3742877.709	439.44
LOCATION	L0002834	VOLUME	480061.940	3742881.367	439.45
LOCATION	L0002835	VOLUME	480061.963	3742885.024	439.45
LOCATION	L0002836	VOLUME	480061.986	3742888.682	439.46
LOCATION	L0002837	VOLUME	480062.009	3742892.339	439.46
LOCATION	L0002838	VOLUME	480062.031	3742895.997	439.47
LOCATION	L0002839	VOLUME	480062.054	3742899.654	439.47
LOCATION	L0002840	VOLUME	480062.077	3742903.312	439.48
LOCATION	L0002841	VOLUME	480062.099	3742906.969	439.48
LOCATION	L0002842	VOLUME	480062.122	3742910.627	439.48
LOCATION	L0002843	VOLUME	480062.145	3742914.284	439.49
LOCATION	L0002844	VOLUME	480062.167	3742917.942	439.51
LOCATION	L0002845	VOLUME	480062.190	3742921.600	439.52
LOCATION	L0002846	VOLUME	480062.213	3742925.257	439.53
LOCATION	L0002847	VOLUME	480062.236	3742928.915	439.54
LOCATION	L0002848	VOLUME	480062.258	3742932.572	439.56
LOCATION	L0002849	VOLUME	480062.281	3742936.230	439.57
LOCATION	L0002850	VOLUME	480062.304	3742939.887	439.58

LOCATION	L0002851	VOLUME	480062.326	3742943.545	439.59
LOCATION	L0002852	VOLUME	480062.349	3742947.202	439.60
LOCATION	L0002853	VOLUME	480062.372	3742950.860	439.61
LOCATION	L0002854	VOLUME	480062.394	3742954.517	439.61
LOCATION	L0002855	VOLUME	480062.417	3742958.175	439.62
LOCATION	L0002856	VOLUME	480062.440	3742961.832	439.63
LOCATION	L0002857	VOLUME	480062.463	3742965.490	439.63
LOCATION	L0002858	VOLUME	480062.485	3742969.147	439.64
LOCATION	L0002859	VOLUME	480062.508	3742972.805	439.65
LOCATION	L0002860	VOLUME	480062.531	3742976.462	439.66
LOCATION	L0002861	VOLUME	480062.553	3742980.120	439.67
LOCATION	L0002862	VOLUME	480062.576	3742983.778	439.68
LOCATION	L0002863	VOLUME	480062.599	3742987.435	439.69
LOCATION	L0002864	VOLUME	480062.621	3742991.093	439.70
LOCATION	L0002865	VOLUME	480062.644	3742994.750	439.71
LOCATION	L0002866	VOLUME	480062.667	3742998.408	439.73
LOCATION	L0002867	VOLUME	480062.690	3743002.065	439.74
LOCATION	L0002868	VOLUME	480061.734	3743004.784	439.75
LOCATION	L0002869	VOLUME	480058.076	3743004.775	439.76
LOCATION	L0002870	VOLUME	480054.419	3743004.766	439.78
LOCATION	L0002871	VOLUME	480050.761	3743004.757	439.79
LOCATION	L0002872	VOLUME	480047.104	3743004.749	439.80
LOCATION	L0002873	VOLUME	480043.446	3743004.740	439.81
LOCATION	L0002874	VOLUME	480039.789	3743004.731	439.83
LOCATION	L0002875	VOLUME	480036.131	3743004.722	439.84
LOCATION	L0002876	VOLUME	480032.473	3743004.713	439.86
LOCATION	L0002877	VOLUME	480028.816	3743004.704	439.87
LOCATION	L0002878	VOLUME	480025.158	3743004.695	439.88
LOCATION	L0002879	VOLUME	480021.501	3743004.686	439.90
LOCATION	L0002880	VOLUME	480017.843	3743004.677	439.91
LOCATION	L0002881	VOLUME	480014.185	3743004.669	439.93
LOCATION	L0002882	VOLUME	480010.528	3743004.660	439.94
LOCATION	L0002883	VOLUME	480006.870	3743004.651	439.95
LOCATION	L0002884	VOLUME	480003.213	3743004.642	439.97
LOCATION	L0002885	VOLUME	479999.555	3743004.633	439.98
LOCATION	L0002886	VOLUME	479995.897	3743004.624	440.00
LOCATION	L0002887	VOLUME	479992.240	3743004.615	440.01
LOCATION	L0002888	VOLUME	479988.582	3743004.606	440.02
LOCATION	L0002889	VOLUME	479984.925	3743004.597	440.04
LOCATION	L0002890	VOLUME	479981.267	3743004.588	440.05
LOCATION	L0002891	VOLUME	479977.610	3743004.580	440.06
LOCATION	L0002892	VOLUME	479973.952	3743004.571	440.07
LOCATION	L0002893	VOLUME	479970.294	3743004.562	440.09
LOCATION	L0002894	VOLUME	479966.637	3743004.553	440.10
LOCATION	L0002895	VOLUME	479962.979	3743004.544	440.11
LOCATION	L0002896	VOLUME	479959.322	3743004.535	440.12
LOCATION	L0002897	VOLUME	479955.664	3743004.526	440.13
LOCATION	L0002898	VOLUME	479952.006	3743004.517	440.14
LOCATION	L0002899	VOLUME	479948.349	3743004.508	440.15
LOCATION	L0002900	VOLUME	479944.691	3743004.500	440.16
LOCATION	L0002901	VOLUME	479941.034	3743004.491	440.17

LOCATION L0002902	VOLUME	479937.376	3743004.482	440.18
LOCATION L0002903	VOLUME	479933.784	3743004.089	440.20
LOCATION L0002904	VOLUME	479930.330	3743002.884	440.21
LOCATION L0002905	VOLUME	479926.877	3743001.679	440.23
LOCATION L0002906	VOLUME	479923.423	3743000.475	440.25
LOCATION L0002907	VOLUME	479919.970	3742999.270	440.27
LOCATION L0002908	VOLUME	479916.434	3742998.532	440.29
LOCATION L0002909	VOLUME	479912.777	3742998.487	440.31
LOCATION L0002910	VOLUME	479909.120	3742998.442	440.35
LOCATION L0002911	VOLUME	479905.463	3742998.397	440.39
LOCATION L0002912	VOLUME	479901.805	3742998.351	440.43
LOCATION L0002913	VOLUME	479898.148	3742998.306	440.47

** End of LINE VOLUME Source ID = SLINE1

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** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Redlands Ave S project driveway to N project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 8.87E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 479887.270, 3742772.613, 440.29, 0.00, 1.70

** 479888.653, 3742998.428, 440.60, 0.00, 1.70

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LOCATION L0002914	VOLUME	479887.281	3742774.441	440.35
LOCATION L0002915	VOLUME	479887.304	3742778.099	440.36
LOCATION L0002916	VOLUME	479887.326	3742781.757	440.36
LOCATION L0002917	VOLUME	479887.349	3742785.414	440.37
LOCATION L0002918	VOLUME	479887.371	3742789.072	440.38
LOCATION L0002919	VOLUME	479887.393	3742792.729	440.39
LOCATION L0002920	VOLUME	479887.416	3742796.387	440.40
LOCATION L0002921	VOLUME	479887.438	3742800.044	440.42
LOCATION L0002922	VOLUME	479887.461	3742803.702	440.43
LOCATION L0002923	VOLUME	479887.483	3742807.359	440.44
LOCATION L0002924	VOLUME	479887.505	3742811.017	440.46
LOCATION L0002925	VOLUME	479887.528	3742814.674	440.47
LOCATION L0002926	VOLUME	479887.550	3742818.332	440.48
LOCATION L0002927	VOLUME	479887.573	3742821.989	440.49
LOCATION L0002928	VOLUME	479887.595	3742825.647	440.49
LOCATION L0002929	VOLUME	479887.617	3742829.304	440.50
LOCATION L0002930	VOLUME	479887.640	3742832.962	440.50
LOCATION L0002931	VOLUME	479887.662	3742836.620	440.51
LOCATION L0002932	VOLUME	479887.685	3742840.277	440.51
LOCATION L0002933	VOLUME	479887.707	3742843.935	440.51
LOCATION L0002934	VOLUME	479887.729	3742847.592	440.52
LOCATION L0002935	VOLUME	479887.752	3742851.250	440.52
LOCATION L0002936	VOLUME	479887.774	3742854.907	440.52

LOCATION	L0002937	VOLUME	479887.797	3742858.565	440.52
LOCATION	L0002938	VOLUME	479887.819	3742862.222	440.51
LOCATION	L0002939	VOLUME	479887.841	3742865.880	440.51
LOCATION	L0002940	VOLUME	479887.864	3742869.537	440.51
LOCATION	L0002941	VOLUME	479887.886	3742873.195	440.50
LOCATION	L0002942	VOLUME	479887.909	3742876.852	440.50
LOCATION	L0002943	VOLUME	479887.931	3742880.510	440.50
LOCATION	L0002944	VOLUME	479887.953	3742884.167	440.49
LOCATION	L0002945	VOLUME	479887.976	3742887.825	440.48
LOCATION	L0002946	VOLUME	479887.998	3742891.483	440.48
LOCATION	L0002947	VOLUME	479888.021	3742895.140	440.47
LOCATION	L0002948	VOLUME	479888.043	3742898.798	440.46
LOCATION	L0002949	VOLUME	479888.065	3742902.455	440.46
LOCATION	L0002950	VOLUME	479888.088	3742906.113	440.45
LOCATION	L0002951	VOLUME	479888.110	3742909.770	440.44
LOCATION	L0002952	VOLUME	479888.133	3742913.428	440.44
LOCATION	L0002953	VOLUME	479888.155	3742917.085	440.44
LOCATION	L0002954	VOLUME	479888.177	3742920.743	440.45
LOCATION	L0002955	VOLUME	479888.200	3742924.400	440.45
LOCATION	L0002956	VOLUME	479888.222	3742928.058	440.45
LOCATION	L0002957	VOLUME	479888.245	3742931.715	440.46
LOCATION	L0002958	VOLUME	479888.267	3742935.373	440.46
LOCATION	L0002959	VOLUME	479888.289	3742939.030	440.46
LOCATION	L0002960	VOLUME	479888.312	3742942.688	440.47
LOCATION	L0002961	VOLUME	479888.334	3742946.345	440.47
LOCATION	L0002962	VOLUME	479888.357	3742950.003	440.48
LOCATION	L0002963	VOLUME	479888.379	3742953.661	440.49
LOCATION	L0002964	VOLUME	479888.401	3742957.318	440.50
LOCATION	L0002965	VOLUME	479888.424	3742960.976	440.50
LOCATION	L0002966	VOLUME	479888.446	3742964.633	440.51
LOCATION	L0002967	VOLUME	479888.469	3742968.291	440.52
LOCATION	L0002968	VOLUME	479888.491	3742971.948	440.52
LOCATION	L0002969	VOLUME	479888.513	3742975.606	440.53
LOCATION	L0002970	VOLUME	479888.536	3742979.263	440.54
LOCATION	L0002971	VOLUME	479888.558	3742982.921	440.54
LOCATION	L0002972	VOLUME	479888.581	3742986.578	440.55
LOCATION	L0002973	VOLUME	479888.603	3742990.236	440.55
LOCATION	L0002974	VOLUME	479888.625	3742993.893	440.56
LOCATION	L0002975	VOLUME	479888.648	3742997.551	440.57

** End of LINE VOLUME Source ID = SLINE2

**

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Redlands Ave north of northern project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 4.51E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

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** Nodes = 4
** 479888.636, 3743002.089, 440.60, 0.00, 1.70
** 479893.826, 3743342.010, 440.41, 0.00, 1.70
** 479898.370, 3743357.588, 440.21, 0.00, 1.70
** 479906.036, 3743575.324, 439.75, 0.00, 1.70

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** LOCATION L0002976    VOLUME  479888.664 3743003.918 440.58
LOCATION L0002977    VOLUME  479888.720 3743007.575 440.59
LOCATION L0002978    VOLUME  479888.776 3743011.232 440.61
LOCATION L0002979    VOLUME  479888.831 3743014.889 440.62
LOCATION L0002980    VOLUME  479888.887 3743018.547 440.64
LOCATION L0002981    VOLUME  479888.943 3743022.204 440.65
LOCATION L0002982    VOLUME  479888.999 3743025.861 440.67
LOCATION L0002983    VOLUME  479889.055 3743029.518 440.68
LOCATION L0002984    VOLUME  479889.111 3743033.175 440.70
LOCATION L0002985    VOLUME  479889.167 3743036.833 440.72
LOCATION L0002986    VOLUME  479889.222 3743040.490 440.74
LOCATION L0002987    VOLUME  479889.278 3743044.147 440.76
LOCATION L0002988    VOLUME  479889.334 3743047.804 440.78
LOCATION L0002989    VOLUME  479889.390 3743051.461 440.80
LOCATION L0002990    VOLUME  479889.446 3743055.118 440.82
LOCATION L0002991    VOLUME  479889.502 3743058.776 440.84
LOCATION L0002992    VOLUME  479889.557 3743062.433 440.86
LOCATION L0002993    VOLUME  479889.613 3743066.090 440.88
LOCATION L0002994    VOLUME  479889.669 3743069.747 440.89
LOCATION L0002995    VOLUME  479889.725 3743073.404 440.91
LOCATION L0002996    VOLUME  479889.781 3743077.061 440.92
LOCATION L0002997    VOLUME  479889.837 3743080.719 440.94
LOCATION L0002998    VOLUME  479889.892 3743084.376 440.95
LOCATION L0002999    VOLUME  479889.948 3743088.033 440.97
LOCATION L0003000    VOLUME  479890.004 3743091.690 440.98
LOCATION L0003001    VOLUME  479890.060 3743095.347 441.00
LOCATION L0003002    VOLUME  479890.116 3743099.004 441.00
LOCATION L0003003    VOLUME  479890.172 3743102.662 441.00
LOCATION L0003004    VOLUME  479890.228 3743106.319 441.00
LOCATION L0003005    VOLUME  479890.283 3743109.976 441.00
LOCATION L0003006    VOLUME  479890.339 3743113.633 440.99
LOCATION L0003007    VOLUME  479890.395 3743117.290 440.99
LOCATION L0003008    VOLUME  479890.451 3743120.948 440.99
LOCATION L0003009    VOLUME  479890.507 3743124.605 440.99
LOCATION L0003010    VOLUME  479890.563 3743128.262 440.99
LOCATION L0003011    VOLUME  479890.618 3743131.919 440.98
LOCATION L0003012    VOLUME  479890.674 3743135.576 440.97
LOCATION L0003013    VOLUME  479890.730 3743139.233 440.97
LOCATION L0003014    VOLUME  479890.786 3743142.891 440.96
LOCATION L0003015    VOLUME  479890.842 3743146.548 440.95
LOCATION L0003016    VOLUME  479890.898 3743150.205 440.95
LOCATION L0003017    VOLUME  479890.953 3743153.862 440.94
LOCATION L0003018    VOLUME  479891.009 3743157.519 440.93
LOCATION L0003019    VOLUME  479891.065 3743161.176 440.93
LOCATION L0003020    VOLUME  479891.121 3743164.834 440.92

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LOCATION	L0003021	VOLUME	479891.177	3743168.491	440.91
LOCATION	L0003022	VOLUME	479891.233	3743172.148	440.90
LOCATION	L0003023	VOLUME	479891.289	3743175.805	440.89
LOCATION	L0003024	VOLUME	479891.344	3743179.462	440.88
LOCATION	L0003025	VOLUME	479891.400	3743183.119	440.87
LOCATION	L0003026	VOLUME	479891.456	3743186.777	440.86
LOCATION	L0003027	VOLUME	479891.512	3743190.434	440.85
LOCATION	L0003028	VOLUME	479891.568	3743194.091	440.84
LOCATION	L0003029	VOLUME	479891.624	3743197.748	440.84
LOCATION	L0003030	VOLUME	479891.679	3743201.405	440.83
LOCATION	L0003031	VOLUME	479891.735	3743205.063	440.82
LOCATION	L0003032	VOLUME	479891.791	3743208.720	440.82
LOCATION	L0003033	VOLUME	479891.847	3743212.377	440.81
LOCATION	L0003034	VOLUME	479891.903	3743216.034	440.81
LOCATION	L0003035	VOLUME	479891.959	3743219.691	440.80
LOCATION	L0003036	VOLUME	479892.014	3743223.348	440.79
LOCATION	L0003037	VOLUME	479892.070	3743227.006	440.79
LOCATION	L0003038	VOLUME	479892.126	3743230.663	440.78
LOCATION	L0003039	VOLUME	479892.182	3743234.320	440.77
LOCATION	L0003040	VOLUME	479892.238	3743237.977	440.77
LOCATION	L0003041	VOLUME	479892.294	3743241.634	440.76
LOCATION	L0003042	VOLUME	479892.349	3743245.291	440.76
LOCATION	L0003043	VOLUME	479892.405	3743248.949	440.75
LOCATION	L0003044	VOLUME	479892.461	3743252.606	440.74
LOCATION	L0003045	VOLUME	479892.517	3743256.263	440.73
LOCATION	L0003046	VOLUME	479892.573	3743259.920	440.72
LOCATION	L0003047	VOLUME	479892.629	3743263.577	440.70
LOCATION	L0003048	VOLUME	479892.685	3743267.234	440.69
LOCATION	L0003049	VOLUME	479892.740	3743270.892	440.68
LOCATION	L0003050	VOLUME	479892.796	3743274.549	440.67
LOCATION	L0003051	VOLUME	479892.852	3743278.206	440.66
LOCATION	L0003052	VOLUME	479892.908	3743281.863	440.64
LOCATION	L0003053	VOLUME	479892.964	3743285.520	440.63
LOCATION	L0003054	VOLUME	479893.020	3743289.178	440.62
LOCATION	L0003055	VOLUME	479893.075	3743292.835	440.61
LOCATION	L0003056	VOLUME	479893.131	3743296.492	440.60
LOCATION	L0003057	VOLUME	479893.187	3743300.149	440.59
LOCATION	L0003058	VOLUME	479893.243	3743303.806	440.57
LOCATION	L0003059	VOLUME	479893.299	3743307.463	440.56
LOCATION	L0003060	VOLUME	479893.355	3743311.121	440.55
LOCATION	L0003061	VOLUME	479893.410	3743314.778	440.54
LOCATION	L0003062	VOLUME	479893.466	3743318.435	440.52
LOCATION	L0003063	VOLUME	479893.522	3743322.092	440.50
LOCATION	L0003064	VOLUME	479893.578	3743325.749	440.49
LOCATION	L0003065	VOLUME	479893.634	3743329.406	440.47
LOCATION	L0003066	VOLUME	479893.690	3743333.064	440.45
LOCATION	L0003067	VOLUME	479893.746	3743336.721	440.44
LOCATION	L0003068	VOLUME	479893.801	3743340.378	440.42
LOCATION	L0003069	VOLUME	479894.393	3743343.954	440.40
LOCATION	L0003070	VOLUME	479895.418	3743347.466	440.37
LOCATION	L0003071	VOLUME	479896.442	3743350.977	440.34

LOCATION	L0003072	VOLUME	479897.466	3743354.488	440.31
LOCATION	L0003073	VOLUME	479898.385	3743358.016	440.28
LOCATION	L0003074	VOLUME	479898.514	3743361.672	440.25
LOCATION	L0003075	VOLUME	479898.642	3743365.327	440.22
LOCATION	L0003076	VOLUME	479898.771	3743368.982	440.19
LOCATION	L0003077	VOLUME	479898.900	3743372.638	440.16
LOCATION	L0003078	VOLUME	479899.029	3743376.293	440.12
LOCATION	L0003079	VOLUME	479899.157	3743379.948	440.09
LOCATION	L0003080	VOLUME	479899.286	3743383.604	440.05
LOCATION	L0003081	VOLUME	479899.415	3743387.259	440.01
LOCATION	L0003082	VOLUME	479899.543	3743390.914	439.97
LOCATION	L0003083	VOLUME	479899.672	3743394.570	439.94
LOCATION	L0003084	VOLUME	479899.801	3743398.225	439.90
LOCATION	L0003085	VOLUME	479899.929	3743401.880	439.86
LOCATION	L0003086	VOLUME	479900.058	3743405.536	439.83
LOCATION	L0003087	VOLUME	479900.187	3743409.191	439.82
LOCATION	L0003088	VOLUME	479900.315	3743412.846	439.82
LOCATION	L0003089	VOLUME	479900.444	3743416.502	439.81
LOCATION	L0003090	VOLUME	479900.573	3743420.157	439.81
LOCATION	L0003091	VOLUME	479900.702	3743423.812	439.80
LOCATION	L0003092	VOLUME	479900.830	3743427.468	439.80
LOCATION	L0003093	VOLUME	479900.959	3743431.123	439.79
LOCATION	L0003094	VOLUME	479901.088	3743434.778	439.79
LOCATION	L0003095	VOLUME	479901.216	3743438.434	439.80
LOCATION	L0003096	VOLUME	479901.345	3743442.089	439.82
LOCATION	L0003097	VOLUME	479901.474	3743445.744	439.84
LOCATION	L0003098	VOLUME	479901.602	3743449.400	439.86
LOCATION	L0003099	VOLUME	479901.731	3743453.055	439.88
LOCATION	L0003100	VOLUME	479901.860	3743456.710	439.90
LOCATION	L0003101	VOLUME	479901.988	3743460.366	439.92
LOCATION	L0003102	VOLUME	479902.117	3743464.021	439.94
LOCATION	L0003103	VOLUME	479902.246	3743467.676	439.95
LOCATION	L0003104	VOLUME	479902.374	3743471.332	439.93
LOCATION	L0003105	VOLUME	479902.503	3743474.987	439.92
LOCATION	L0003106	VOLUME	479902.632	3743478.642	439.91
LOCATION	L0003107	VOLUME	479902.761	3743482.298	439.89
LOCATION	L0003108	VOLUME	479902.889	3743485.953	439.88
LOCATION	L0003109	VOLUME	479903.018	3743489.608	439.87
LOCATION	L0003110	VOLUME	479903.147	3743493.264	439.86
LOCATION	L0003111	VOLUME	479903.275	3743496.919	439.84
LOCATION	L0003112	VOLUME	479903.404	3743500.574	439.83
LOCATION	L0003113	VOLUME	479903.533	3743504.230	439.82
LOCATION	L0003114	VOLUME	479903.661	3743507.885	439.82
LOCATION	L0003115	VOLUME	479903.790	3743511.540	439.81
LOCATION	L0003116	VOLUME	479903.919	3743515.196	439.80
LOCATION	L0003117	VOLUME	479904.047	3743518.851	439.79
LOCATION	L0003118	VOLUME	479904.176	3743522.506	439.78
LOCATION	L0003119	VOLUME	479904.305	3743526.162	439.77
LOCATION	L0003120	VOLUME	479904.434	3743529.817	439.77
LOCATION	L0003121	VOLUME	479904.562	3743533.472	439.76
LOCATION	L0003122	VOLUME	479904.691	3743537.128	439.75

LOCATION	L0003123	VOLUME	479904.820	3743540.783	439.75
LOCATION	L0003124	VOLUME	479904.948	3743544.438	439.74
LOCATION	L0003125	VOLUME	479905.077	3743548.094	439.74
LOCATION	L0003126	VOLUME	479905.206	3743551.749	439.73
LOCATION	L0003127	VOLUME	479905.334	3743555.404	439.73
LOCATION	L0003128	VOLUME	479905.463	3743559.060	439.72
LOCATION	L0003129	VOLUME	479905.592	3743562.715	439.72
LOCATION	L0003130	VOLUME	479905.720	3743566.371	439.71
LOCATION	L0003131	VOLUME	479905.849	3743570.026	439.71
LOCATION	L0003132	VOLUME	479905.978	3743573.681	439.71
** End of LINE VOLUME Source ID = SLINE3					
LOCATION	STCK1	POINT	480051.620	3742829.628	439.470
** DESCRSRC Idle 1					
LOCATION	STCK2	POINT	480051.137	3742865.179	439.480
** DESCRSRC Idle 2					
LOCATION	STCK3	POINT	480050.469	3742899.287	439.530
** DESCRSRC Idle 3					
LOCATION	STCK4	POINT	480047.897	3742937.803	439.640
** DESCRSRC Idle 4					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0002757	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002758	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002759	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002760	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002761	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002762	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002763	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002764	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002765	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002766	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002767	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002768	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002769	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002770	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002771	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002772	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002773	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002774	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002775	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002776	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002777	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002778	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002779	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002780	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002781	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002782	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002783	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002784	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002785	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002786	0.00000004433	0.00	1.70	6.52

SRCPARAM	L0002889	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002890	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002891	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002892	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002893	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002894	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002895	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002896	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002897	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002898	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002899	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002900	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002901	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002902	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002903	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002904	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002905	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002906	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002907	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002908	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002909	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002910	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002911	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002912	0.00000004433	0.00	1.70	6.52
SRCPARAM	L0002913	0.00000004433	0.00	1.70	6.52

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** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0002914	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002915	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002916	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002917	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002918	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002919	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002920	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002921	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002922	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002923	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002924	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002925	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002926	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002927	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002928	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002929	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002930	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002931	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002932	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002933	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002934	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002935	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002936	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002937	0.00000001431	0.00	1.70	0.85

SRCPARAM	L0002938	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002939	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002940	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002941	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002942	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002943	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002944	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002945	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002946	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002947	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002948	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002949	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002950	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002951	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002952	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002953	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002954	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002955	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002956	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002957	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002958	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002959	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002960	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002961	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002962	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002963	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002964	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002965	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002966	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002967	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002968	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002969	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002970	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002971	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002972	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002973	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002974	0.00000001431	0.00	1.70	0.85
SRCPARAM	L0002975	0.00000001431	0.00	1.70	0.85

**

 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0002976	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002977	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002978	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002979	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002980	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002981	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002982	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002983	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002984	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002985	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0002986	0.00000002873	0.00	1.70	0.85

SRCPARAM	L0003089	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003090	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003091	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003092	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003093	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003094	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003095	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003096	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003097	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003098	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003099	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003100	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003101	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003102	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003103	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003104	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003105	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003106	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003107	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003108	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003109	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003110	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003111	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003112	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003113	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003114	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003115	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003116	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003117	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003118	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003119	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003120	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003121	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003122	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003123	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003124	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003125	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003126	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003127	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003128	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003129	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003130	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003131	0.00000002873	0.00	1.70	0.85
SRCPARAM	L0003132	0.00000002873	0.00	1.70	0.85

**

SRCPARAM	STCK1	0.000013	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.000013	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.000013	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.000013	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDWID	STCK4	148.55	180.50	206.97	227.14	240.42	246.39
BUILDWID	STCK4	244.87	235.92	221.96	235.70	244.94	246.74
BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
XBADJ	STCK1	-72.00	-89.35	-103.99	-115.47	-123.44	-127.66
XBADJ	STCK1	-128.00	-124.45	-119.42	-142.59	-165.09	-182.58
XBADJ	STCK1	-194.52	-200.55	-200.48	-194.33	-182.27	-166.84
XBADJ	STCK1	-163.70	-155.59	-142.75	-125.57	-104.58	-80.41
XBADJ	STCK1	-53.79	-25.54	3.48	-5.97	-15.41	-24.39
XBADJ	STCK1	-32.63	-39.87	-45.91	-50.54	-53.65	-55.12
XBADJ	STCK2	-106.93	-122.60	-134.54	-142.39	-145.92	-145.02
XBADJ	STCK2	-139.71	-130.15	-118.94	-135.94	-152.48	-164.39
XBADJ	STCK2	-171.30	-173.01	-169.46	-160.76	-147.17	-131.29
XBADJ	STCK2	-128.77	-122.35	-112.20	-98.65	-82.09	-63.05
XBADJ	STCK2	-42.08	-19.84	3.00	-12.61	-28.02	-42.58
XBADJ	STCK2	-55.85	-67.41	-76.93	-84.11	-88.74	-90.67
XBADJ	STCK3	-140.40	-154.42	-163.74	-168.09	-167.34	-161.49
XBADJ	STCK3	-150.74	-135.41	-118.27	-129.36	-140.18	-146.75
XBADJ	STCK3	-148.86	-146.45	-139.58	-128.48	-113.47	-97.18
XBADJ	STCK3	-95.30	-90.52	-83.00	-72.95	-60.68	-46.57

XBADJ	STCK3	-31.05	-14.58	2.33	-19.20	-40.32	-60.22
XBADJ	STCK3	-78.28	-93.97	-106.81	-116.40	-122.45	-124.78
XBADJ	STCK4	-177.88	-189.73	-195.81	-195.94	-190.12	-178.52
XBADJ	STCK4	-161.50	-139.57	-115.70	-120.14	-124.60	-125.27
XBADJ	STCK4	-122.14	-115.29	-104.95	-91.41	-75.10	-58.67
XBADJ	STCK4	-57.82	-55.21	-50.93	-45.10	-37.90	-29.54
XBADJ	STCK4	-20.29	-10.42	-0.24	-28.41	-55.90	-81.70
XBADJ	STCK4	-105.01	-125.13	-141.44	-153.46	-160.82	-163.29
YBADJ	STCK1	68.31	74.84	79.09	80.95	80.34	77.29
YBADJ	STCK1	71.89	64.31	55.86	45.85	33.12	19.38
YBADJ	STCK1	5.05	-9.43	-23.63	-37.10	-49.45	-61.45
YBADJ	STCK1	-68.31	-74.84	-79.09	-80.95	-80.34	-77.29
YBADJ	STCK1	-71.89	-64.31	-55.86	-45.85	-33.12	-19.38
YBADJ	STCK1	-5.05	9.43	23.63	37.10	49.45	61.45
YBADJ	STCK2	61.66	62.23	60.90	57.73	52.80	46.26
YBADJ	STCK2	38.32	29.22	20.31	10.92	-0.12	-11.17
YBADJ	STCK2	-21.87	-31.91	-40.99	-48.81	-55.15	-60.97
YBADJ	STCK2	-61.66	-62.23	-60.90	-57.73	-52.80	-46.26
YBADJ	STCK2	-38.32	-29.22	-20.31	-10.92	0.12	11.17
YBADJ	STCK2	21.87	31.91	40.99	48.81	55.15	60.97
YBADJ	STCK3	55.08	49.93	43.27	35.29	26.24	16.39
YBADJ	STCK3	6.04	-4.49	-13.80	-22.55	-31.95	-40.37
YBADJ	STCK3	-47.57	-53.33	-57.46	-59.85	-60.42	-60.30
YBADJ	STCK3	-55.08	-49.93	-43.27	-35.29	-26.24	-16.39
YBADJ	STCK3	-6.04	4.49	13.80	22.55	31.95	40.37
YBADJ	STCK3	47.57	53.33	57.46	59.85	60.42	60.30
YBADJ	STCK4	45.86	34.35	21.79	8.57	-4.92	-18.25
YBADJ	STCK4	-31.03	-42.86	-52.31	-60.03	-67.26	-72.44
YBADJ	STCK4	-75.42	-76.11	-74.49	-70.60	-64.57	-57.73
YBADJ	STCK4	-45.86	-34.35	-21.79	-8.57	4.92	18.25
YBADJ	STCK4	31.03	42.86	52.31	60.03	67.26	72.44
YBADJ	STCK4	75.42	76.11	74.49	70.60	64.57	57.73

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19371 Redlands Avenue East 2026-39.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"

PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"

SURFDATA 3171 2010

UAIRDATA 3190 2010

SITEDATA 99999 2010

PROFBASE 442.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19371 REDLANDS AVENUE EAST 2026-39.AD\PE00GALL.PLT" 31

SUMMFILE "19371 Redlands Avenue East 2026-39.sum"

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	6 Warning Message(s)
A Total of	0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

SO W320	861	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	862	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	863	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	864	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1032	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	1032	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.2 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: 19371 Redlands Avenue East 2026-39.err
**File for Summary of Results: 19371 Redlands Avenue East 2026-39.sum

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.13000E-04	480051.6	3742829.6	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.13000E-04	480051.1	3742865.2	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.13000E-04	480050.5	3742899.3	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.13000E-04	480047.9	3742937.8	439.6	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002757	0	0.44330E-07	479894.1	3742773.0	440.3	0.00	1.70	6.52	YES	
L0002758	0	0.44330E-07	479897.7	3742772.6	440.2	0.00	1.70	6.52	YES	
L0002759	0	0.44330E-07	479901.3	3742772.3	440.2	0.00	1.70	6.52	YES	
L0002760	0	0.44330E-07	479905.0	3742771.9	440.2	0.00	1.70	6.52	YES	
L0002761	0	0.44330E-07	479908.6	3742771.6	440.1	0.00	1.70	6.52	YES	
L0002762	0	0.44330E-07	479912.3	3742771.2	440.1	0.00	1.70	6.52	YES	
L0002763	0	0.44330E-07	479915.9	3742770.9	440.1	0.00	1.70	6.52	YES	
L0002764	0	0.44330E-07	479919.5	3742770.3	440.1	0.00	1.70	6.52	YES	
L0002765	0	0.44330E-07	479923.0	3742769.1	440.1	0.00	1.70	6.52	YES	
L0002766	0	0.44330E-07	479926.4	3742767.9	440.0	0.00	1.70	6.52	YES	
L0002767	0	0.44330E-07	479929.9	3742766.7	440.0	0.00	1.70	6.52	YES	
L0002768	0	0.44330E-07	479933.5	3742766.5	440.0	0.00	1.70	6.52	YES	
L0002769	0	0.44330E-07	479937.1	3742766.6	440.0	0.00	1.70	6.52	YES	
L0002770	0	0.44330E-07	479940.8	3742766.6	440.0	0.00	1.70	6.52	YES	
L0002771	0	0.44330E-07	479944.5	3742766.6	439.9	0.00	1.70	6.52	YES	
L0002772	0	0.44330E-07	479948.1	3742766.7	439.9	0.00	1.70	6.52	YES	
L0002773	0	0.44330E-07	479951.8	3742766.7	439.9	0.00	1.70	6.52	YES	
L0002774	0	0.44330E-07	479955.4	3742766.7	439.9	0.00	1.70	6.52	YES	
L0002775	0	0.44330E-07	479959.1	3742766.8	439.9	0.00	1.70	6.52	YES	
L0002776	0	0.44330E-07	479962.7	3742766.8	439.9	0.00	1.70	6.52	YES	
L0002777	0	0.44330E-07	479966.4	3742766.8	439.9	0.00	1.70	6.52	YES	
L0002778	0	0.44330E-07	479970.1	3742766.9	439.9	0.00	1.70	6.52	YES	
L0002779	0	0.44330E-07	479973.7	3742766.9	439.9	0.00	1.70	6.52	YES	
L0002780	0	0.44330E-07	479977.4	3742766.9	439.9	0.00	1.70	6.52	YES	
L0002781	0	0.44330E-07	479981.0	3742767.0	439.9	0.00	1.70	6.52	YES	
L0002782	0	0.44330E-07	479984.7	3742767.0	439.9	0.00	1.70	6.52	YES	
L0002783	0	0.44330E-07	479988.3	3742767.0	439.8	0.00	1.70	6.52	YES	
L0002784	0	0.44330E-07	479992.0	3742767.1	439.8	0.00	1.70	6.52	YES	
L0002785	0	0.44330E-07	479995.7	3742767.1	439.8	0.00	1.70	6.52	YES	
L0002786	0	0.44330E-07	479999.3	3742767.1	439.8	0.00	1.70	6.52	YES	
L0002787	0	0.44330E-07	480003.0	3742767.2	439.8	0.00	1.70	6.52	YES	
L0002788	0	0.44330E-07	480006.6	3742767.2	439.8	0.00	1.70	6.52	YES	
L0002789	0	0.44330E-07	480010.3	3742767.2	439.8	0.00	1.70	6.52	YES	
L0002790	0	0.44330E-07	480014.0	3742767.3	439.7	0.00	1.70	6.52	YES	
L0002791	0	0.44330E-07	480017.6	3742767.3	439.7	0.00	1.70	6.52	YES	
L0002792	0	0.44330E-07	480021.3	3742767.3	439.7	0.00	1.70	6.52	YES	
L0002793	0	0.44330E-07	480024.9	3742767.4	439.7	0.00	1.70	6.52	YES	
L0002794	0	0.44330E-07	480028.6	3742767.4	439.7	0.00	1.70	6.52	YES	
L0002795	0	0.44330E-07	480032.2	3742767.5	439.7	0.00	1.70	6.52	YES	
L0002796	0	0.44330E-07	480035.9	3742767.5	439.7	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039

*** 08/17/21
 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002797	0	0.44330E-07	480039.6	3742767.5	439.6	0.00	1.70	6.52	YES	
L0002798	0	0.44330E-07	480043.2	3742767.6	439.6	0.00	1.70	6.52	YES	
L0002799	0	0.44330E-07	480046.9	3742767.6	439.6	0.00	1.70	6.52	YES	
L0002800	0	0.44330E-07	480050.5	3742767.6	439.6	0.00	1.70	6.52	YES	
L0002801	0	0.44330E-07	480054.2	3742767.7	439.6	0.00	1.70	6.52	YES	
L0002802	0	0.44330E-07	480057.8	3742767.7	439.6	0.00	1.70	6.52	YES	
L0002803	0	0.44330E-07	480061.2	3742768.0	439.5	0.00	1.70	6.52	YES	
L0002804	0	0.44330E-07	480061.3	3742771.6	439.5	0.00	1.70	6.52	YES	
L0002805	0	0.44330E-07	480061.3	3742775.3	439.5	0.00	1.70	6.52	YES	
L0002806	0	0.44330E-07	480061.3	3742779.0	439.5	0.00	1.70	6.52	YES	
L0002807	0	0.44330E-07	480061.3	3742782.6	439.5	0.00	1.70	6.52	YES	
L0002808	0	0.44330E-07	480061.3	3742786.3	439.5	0.00	1.70	6.52	YES	
L0002809	0	0.44330E-07	480061.4	3742789.9	439.5	0.00	1.70	6.52	YES	
L0002810	0	0.44330E-07	480061.4	3742793.6	439.5	0.00	1.70	6.52	YES	
L0002811	0	0.44330E-07	480061.4	3742797.2	439.5	0.00	1.70	6.52	YES	
L0002812	0	0.44330E-07	480061.4	3742800.9	439.5	0.00	1.70	6.52	YES	
L0002813	0	0.44330E-07	480061.5	3742804.6	439.5	0.00	1.70	6.52	YES	
L0002814	0	0.44330E-07	480061.5	3742808.2	439.4	0.00	1.70	6.52	YES	
L0002815	0	0.44330E-07	480061.5	3742811.9	439.4	0.00	1.70	6.52	YES	
L0002816	0	0.44330E-07	480061.5	3742815.5	439.4	0.00	1.70	6.52	YES	
L0002817	0	0.44330E-07	480061.6	3742819.2	439.4	0.00	1.70	6.52	YES	
L0002818	0	0.44330E-07	480061.6	3742822.8	439.4	0.00	1.70	6.52	YES	
L0002819	0	0.44330E-07	480061.6	3742826.5	439.4	0.00	1.70	6.52	YES	
L0002820	0	0.44330E-07	480061.6	3742830.2	439.4	0.00	1.70	6.52	YES	
L0002821	0	0.44330E-07	480061.6	3742833.8	439.4	0.00	1.70	6.52	YES	
L0002822	0	0.44330E-07	480061.7	3742837.5	439.4	0.00	1.70	6.52	YES	
L0002823	0	0.44330E-07	480061.7	3742841.1	439.4	0.00	1.70	6.52	YES	
L0002824	0	0.44330E-07	480061.7	3742844.8	439.4	0.00	1.70	6.52	YES	
L0002825	0	0.44330E-07	480061.7	3742848.4	439.4	0.00	1.70	6.52	YES	
L0002826	0	0.44330E-07	480061.8	3742852.1	439.4	0.00	1.70	6.52	YES	
L0002827	0	0.44330E-07	480061.8	3742855.8	439.4	0.00	1.70	6.52	YES	
L0002828	0	0.44330E-07	480061.8	3742859.4	439.4	0.00	1.70	6.52	YES	
L0002829	0	0.44330E-07	480061.8	3742863.1	439.4	0.00	1.70	6.52	YES	
L0002830	0	0.44330E-07	480061.8	3742866.7	439.4	0.00	1.70	6.52	YES	
L0002831	0	0.44330E-07	480061.9	3742870.4	439.4	0.00	1.70	6.52	YES	
L0002832	0	0.44330E-07	480061.9	3742874.1	439.4	0.00	1.70	6.52	YES	
L0002833	0	0.44330E-07	480061.9	3742877.7	439.4	0.00	1.70	6.52	YES	
L0002834	0	0.44330E-07	480061.9	3742881.4	439.4	0.00	1.70	6.52	YES	
L0002835	0	0.44330E-07	480062.0	3742885.0	439.4	0.00	1.70	6.52	YES	
L0002836	0	0.44330E-07	480062.0	3742888.7	439.5	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial

*** 08/17/21

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002837	0	0.44330E-07	480062.0	3742892.3	439.5	0.00	1.70	6.52	YES	
L0002838	0	0.44330E-07	480062.0	3742896.0	439.5	0.00	1.70	6.52	YES	
L0002839	0	0.44330E-07	480062.1	3742899.7	439.5	0.00	1.70	6.52	YES	
L0002840	0	0.44330E-07	480062.1	3742903.3	439.5	0.00	1.70	6.52	YES	
L0002841	0	0.44330E-07	480062.1	3742907.0	439.5	0.00	1.70	6.52	YES	
L0002842	0	0.44330E-07	480062.1	3742910.6	439.5	0.00	1.70	6.52	YES	
L0002843	0	0.44330E-07	480062.1	3742914.3	439.5	0.00	1.70	6.52	YES	
L0002844	0	0.44330E-07	480062.2	3742917.9	439.5	0.00	1.70	6.52	YES	
L0002845	0	0.44330E-07	480062.2	3742921.6	439.5	0.00	1.70	6.52	YES	
L0002846	0	0.44330E-07	480062.2	3742925.3	439.5	0.00	1.70	6.52	YES	
L0002847	0	0.44330E-07	480062.2	3742928.9	439.5	0.00	1.70	6.52	YES	
L0002848	0	0.44330E-07	480062.3	3742932.6	439.6	0.00	1.70	6.52	YES	
L0002849	0	0.44330E-07	480062.3	3742936.2	439.6	0.00	1.70	6.52	YES	
L0002850	0	0.44330E-07	480062.3	3742939.9	439.6	0.00	1.70	6.52	YES	
L0002851	0	0.44330E-07	480062.3	3742943.5	439.6	0.00	1.70	6.52	YES	
L0002852	0	0.44330E-07	480062.3	3742947.2	439.6	0.00	1.70	6.52	YES	
L0002853	0	0.44330E-07	480062.4	3742950.9	439.6	0.00	1.70	6.52	YES	
L0002854	0	0.44330E-07	480062.4	3742954.5	439.6	0.00	1.70	6.52	YES	
L0002855	0	0.44330E-07	480062.4	3742958.2	439.6	0.00	1.70	6.52	YES	
L0002856	0	0.44330E-07	480062.4	3742961.8	439.6	0.00	1.70	6.52	YES	
L0002857	0	0.44330E-07	480062.5	3742965.5	439.6	0.00	1.70	6.52	YES	
L0002858	0	0.44330E-07	480062.5	3742969.1	439.6	0.00	1.70	6.52	YES	
L0002859	0	0.44330E-07	480062.5	3742972.8	439.7	0.00	1.70	6.52	YES	
L0002860	0	0.44330E-07	480062.5	3742976.5	439.7	0.00	1.70	6.52	YES	
L0002861	0	0.44330E-07	480062.6	3742980.1	439.7	0.00	1.70	6.52	YES	
L0002862	0	0.44330E-07	480062.6	3742983.8	439.7	0.00	1.70	6.52	YES	
L0002863	0	0.44330E-07	480062.6	3742987.4	439.7	0.00	1.70	6.52	YES	
L0002864	0	0.44330E-07	480062.6	3742991.1	439.7	0.00	1.70	6.52	YES	
L0002865	0	0.44330E-07	480062.6	3742994.8	439.7	0.00	1.70	6.52	YES	
L0002866	0	0.44330E-07	480062.7	3742998.4	439.7	0.00	1.70	6.52	YES	
L0002867	0	0.44330E-07	480062.7	3743002.1	439.7	0.00	1.70	6.52	YES	
L0002868	0	0.44330E-07	480061.7	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002869	0	0.44330E-07	480058.1	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002870	0	0.44330E-07	480054.4	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002871	0	0.44330E-07	480050.8	3743004.8	439.8	0.00	1.70	6.52	YES	
L0002872	0	0.44330E-07	480047.1	3743004.7	439.8	0.00	1.70	6.52	YES	
L0002873	0	0.44330E-07	480043.4	3743004.7	439.8	0.00	1.70	6.52	YES	
L0002874	0	0.44330E-07	480039.8	3743004.7	439.8	0.00	1.70	6.52	YES	
L0002875	0	0.44330E-07	480036.1	3743004.7	439.8	0.00	1.70	6.52	YES	

L0002876 0 0.44330E-07 480032.5 3743004.7 439.9 0.00 1.70 6.52 YES

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial
*** AERMET - VERSION 16216 *** DPM Concentrations - 2026-2039

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002877	0	0.44330E-07	480028.8	3743004.7	439.9	0.00	1.70	6.52	YES	
L0002878	0	0.44330E-07	480025.2	3743004.7	439.9	0.00	1.70	6.52	YES	
L0002879	0	0.44330E-07	480021.5	3743004.7	439.9	0.00	1.70	6.52	YES	
L0002880	0	0.44330E-07	480017.8	3743004.7	439.9	0.00	1.70	6.52	YES	
L0002881	0	0.44330E-07	480014.2	3743004.7	439.9	0.00	1.70	6.52	YES	
L0002882	0	0.44330E-07	480010.5	3743004.7	439.9	0.00	1.70	6.52	YES	
L0002883	0	0.44330E-07	480006.9	3743004.7	439.9	0.00	1.70	6.52	YES	
L0002884	0	0.44330E-07	480003.2	3743004.6	440.0	0.00	1.70	6.52	YES	
L0002885	0	0.44330E-07	479999.6	3743004.6	440.0	0.00	1.70	6.52	YES	
L0002886	0	0.44330E-07	479995.9	3743004.6	440.0	0.00	1.70	6.52	YES	
L0002887	0	0.44330E-07	479992.2	3743004.6	440.0	0.00	1.70	6.52	YES	
L0002888	0	0.44330E-07	479988.6	3743004.6	440.0	0.00	1.70	6.52	YES	
L0002889	0	0.44330E-07	479984.9	3743004.6	440.0	0.00	1.70	6.52	YES	
L0002890	0	0.44330E-07	479981.3	3743004.6	440.1	0.00	1.70	6.52	YES	
L0002891	0	0.44330E-07	479977.6	3743004.6	440.1	0.00	1.70	6.52	YES	
L0002892	0	0.44330E-07	479974.0	3743004.6	440.1	0.00	1.70	6.52	YES	
L0002893	0	0.44330E-07	479970.3	3743004.6	440.1	0.00	1.70	6.52	YES	
L0002894	0	0.44330E-07	479966.6	3743004.6	440.1	0.00	1.70	6.52	YES	
L0002895	0	0.44330E-07	479963.0	3743004.5	440.1	0.00	1.70	6.52	YES	
L0002896	0	0.44330E-07	479959.3	3743004.5	440.1	0.00	1.70	6.52	YES	
L0002897	0	0.44330E-07	479955.7	3743004.5	440.1	0.00	1.70	6.52	YES	
L0002898	0	0.44330E-07	479952.0	3743004.5	440.1	0.00	1.70	6.52	YES	
L0002899	0	0.44330E-07	479948.3	3743004.5	440.2	0.00	1.70	6.52	YES	
L0002900	0	0.44330E-07	479944.7	3743004.5	440.2	0.00	1.70	6.52	YES	
L0002901	0	0.44330E-07	479941.0	3743004.5	440.2	0.00	1.70	6.52	YES	
L0002902	0	0.44330E-07	479937.4	3743004.5	440.2	0.00	1.70	6.52	YES	
L0002903	0	0.44330E-07	479933.8	3743004.1	440.2	0.00	1.70	6.52	YES	
L0002904	0	0.44330E-07	479930.3	3743002.9	440.2	0.00	1.70	6.52	YES	
L0002905	0	0.44330E-07	479926.9	3743001.7	440.2	0.00	1.70	6.52	YES	
L0002906	0	0.44330E-07	479923.4	3743000.5	440.2	0.00	1.70	6.52	YES	
L0002907	0	0.44330E-07	479920.0	3742999.3	440.3	0.00	1.70	6.52	YES	
L0002908	0	0.44330E-07	479916.4	3742998.5	440.3	0.00	1.70	6.52	YES	
L0002909	0	0.44330E-07	479912.8	3742998.5	440.3	0.00	1.70	6.52	YES	
L0002910	0	0.44330E-07	479909.1	3742998.4	440.4	0.00	1.70	6.52	YES	
L0002911	0	0.44330E-07	479905.5	3742998.4	440.4	0.00	1.70	6.52	YES	
L0002912	0	0.44330E-07	479901.8	3742998.4	440.4	0.00	1.70	6.52	YES	

L0002913	0	0.44330E-07	479898.1	3742998.3	440.5	0.00	1.70	6.52	YES
L0002914	0	0.14310E-07	479887.3	3742774.4	440.4	0.00	1.70	0.85	YES
L0002915	0	0.14310E-07	479887.3	3742778.1	440.4	0.00	1.70	0.85	YES
L0002916	0	0.14310E-07	479887.3	3742781.8	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002917	0	0.14310E-07	479887.3	3742785.4	440.4	0.00	1.70	0.85	YES	
L0002918	0	0.14310E-07	479887.4	3742789.1	440.4	0.00	1.70	0.85	YES	
L0002919	0	0.14310E-07	479887.4	3742792.7	440.4	0.00	1.70	0.85	YES	
L0002920	0	0.14310E-07	479887.4	3742796.4	440.4	0.00	1.70	0.85	YES	
L0002921	0	0.14310E-07	479887.4	3742800.0	440.4	0.00	1.70	0.85	YES	
L0002922	0	0.14310E-07	479887.5	3742803.7	440.4	0.00	1.70	0.85	YES	
L0002923	0	0.14310E-07	479887.5	3742807.4	440.4	0.00	1.70	0.85	YES	
L0002924	0	0.14310E-07	479887.5	3742811.0	440.5	0.00	1.70	0.85	YES	
L0002925	0	0.14310E-07	479887.5	3742814.7	440.5	0.00	1.70	0.85	YES	
L0002926	0	0.14310E-07	479887.5	3742818.3	440.5	0.00	1.70	0.85	YES	
L0002927	0	0.14310E-07	479887.6	3742822.0	440.5	0.00	1.70	0.85	YES	
L0002928	0	0.14310E-07	479887.6	3742825.6	440.5	0.00	1.70	0.85	YES	
L0002929	0	0.14310E-07	479887.6	3742829.3	440.5	0.00	1.70	0.85	YES	
L0002930	0	0.14310E-07	479887.6	3742833.0	440.5	0.00	1.70	0.85	YES	
L0002931	0	0.14310E-07	479887.7	3742836.6	440.5	0.00	1.70	0.85	YES	
L0002932	0	0.14310E-07	479887.7	3742840.3	440.5	0.00	1.70	0.85	YES	
L0002933	0	0.14310E-07	479887.7	3742843.9	440.5	0.00	1.70	0.85	YES	
L0002934	0	0.14310E-07	479887.7	3742847.6	440.5	0.00	1.70	0.85	YES	
L0002935	0	0.14310E-07	479887.8	3742851.2	440.5	0.00	1.70	0.85	YES	
L0002936	0	0.14310E-07	479887.8	3742854.9	440.5	0.00	1.70	0.85	YES	
L0002937	0	0.14310E-07	479887.8	3742858.6	440.5	0.00	1.70	0.85	YES	
L0002938	0	0.14310E-07	479887.8	3742862.2	440.5	0.00	1.70	0.85	YES	
L0002939	0	0.14310E-07	479887.8	3742865.9	440.5	0.00	1.70	0.85	YES	
L0002940	0	0.14310E-07	479887.9	3742869.5	440.5	0.00	1.70	0.85	YES	
L0002941	0	0.14310E-07	479887.9	3742873.2	440.5	0.00	1.70	0.85	YES	
L0002942	0	0.14310E-07	479887.9	3742876.9	440.5	0.00	1.70	0.85	YES	
L0002943	0	0.14310E-07	479887.9	3742880.5	440.5	0.00	1.70	0.85	YES	
L0002944	0	0.14310E-07	479888.0	3742884.2	440.5	0.00	1.70	0.85	YES	
L0002945	0	0.14310E-07	479888.0	3742887.8	440.5	0.00	1.70	0.85	YES	
L0002946	0	0.14310E-07	479888.0	3742891.5	440.5	0.00	1.70	0.85	YES	
L0002947	0	0.14310E-07	479888.0	3742895.1	440.5	0.00	1.70	0.85	YES	
L0002948	0	0.14310E-07	479888.0	3742898.8	440.5	0.00	1.70	0.85	YES	
L0002949	0	0.14310E-07	479888.1	3742902.5	440.5	0.00	1.70	0.85	YES	

L0002950	0	0.14310E-07	479888.1	3742906.1	440.4	0.00	1.70	0.85	YES
L0002951	0	0.14310E-07	479888.1	3742909.8	440.4	0.00	1.70	0.85	YES
L0002952	0	0.14310E-07	479888.1	3742913.4	440.4	0.00	1.70	0.85	YES
L0002953	0	0.14310E-07	479888.2	3742917.1	440.4	0.00	1.70	0.85	YES
L0002954	0	0.14310E-07	479888.2	3742920.7	440.4	0.00	1.70	0.85	YES
L0002955	0	0.14310E-07	479888.2	3742924.4	440.4	0.00	1.70	0.85	YES
L0002956	0	0.14310E-07	479888.2	3742928.1	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002957	0	0.14310E-07	479888.2	3742931.7	440.5	0.00	1.70	0.85	YES	
L0002958	0	0.14310E-07	479888.3	3742935.4	440.5	0.00	1.70	0.85	YES	
L0002959	0	0.14310E-07	479888.3	3742939.0	440.5	0.00	1.70	0.85	YES	
L0002960	0	0.14310E-07	479888.3	3742942.7	440.5	0.00	1.70	0.85	YES	
L0002961	0	0.14310E-07	479888.3	3742946.3	440.5	0.00	1.70	0.85	YES	
L0002962	0	0.14310E-07	479888.4	3742950.0	440.5	0.00	1.70	0.85	YES	
L0002963	0	0.14310E-07	479888.4	3742953.7	440.5	0.00	1.70	0.85	YES	
L0002964	0	0.14310E-07	479888.4	3742957.3	440.5	0.00	1.70	0.85	YES	
L0002965	0	0.14310E-07	479888.4	3742961.0	440.5	0.00	1.70	0.85	YES	
L0002966	0	0.14310E-07	479888.4	3742964.6	440.5	0.00	1.70	0.85	YES	
L0002967	0	0.14310E-07	479888.5	3742968.3	440.5	0.00	1.70	0.85	YES	
L0002968	0	0.14310E-07	479888.5	3742971.9	440.5	0.00	1.70	0.85	YES	
L0002969	0	0.14310E-07	479888.5	3742975.6	440.5	0.00	1.70	0.85	YES	
L0002970	0	0.14310E-07	479888.5	3742979.3	440.5	0.00	1.70	0.85	YES	
L0002971	0	0.14310E-07	479888.6	3742982.9	440.5	0.00	1.70	0.85	YES	
L0002972	0	0.14310E-07	479888.6	3742986.6	440.6	0.00	1.70	0.85	YES	
L0002973	0	0.14310E-07	479888.6	3742990.2	440.6	0.00	1.70	0.85	YES	
L0002974	0	0.14310E-07	479888.6	3742993.9	440.6	0.00	1.70	0.85	YES	
L0002975	0	0.14310E-07	479888.6	3742997.6	440.6	0.00	1.70	0.85	YES	
L0002976	0	0.28730E-07	479888.7	3743003.9	440.6	0.00	1.70	0.85	YES	
L0002977	0	0.28730E-07	479888.7	3743007.6	440.6	0.00	1.70	0.85	YES	
L0002978	0	0.28730E-07	479888.8	3743011.2	440.6	0.00	1.70	0.85	YES	
L0002979	0	0.28730E-07	479888.8	3743014.9	440.6	0.00	1.70	0.85	YES	
L0002980	0	0.28730E-07	479888.9	3743018.5	440.6	0.00	1.70	0.85	YES	
L0002981	0	0.28730E-07	479888.9	3743022.2	440.7	0.00	1.70	0.85	YES	
L0002982	0	0.28730E-07	479889.0	3743025.9	440.7	0.00	1.70	0.85	YES	
L0002983	0	0.28730E-07	479889.1	3743029.5	440.7	0.00	1.70	0.85	YES	
L0002984	0	0.28730E-07	479889.1	3743033.2	440.7	0.00	1.70	0.85	YES	
L0002985	0	0.28730E-07	479889.2	3743036.8	440.7	0.00	1.70	0.85	YES	
L0002986	0	0.28730E-07	479889.2	3743040.5	440.7	0.00	1.70	0.85	YES	

L0003061	0	0.28730E-07	479893.4	3743314.8	440.5	0.00	1.70	0.85	YES
L0003062	0	0.28730E-07	479893.5	3743318.4	440.5	0.00	1.70	0.85	YES
L0003063	0	0.28730E-07	479893.5	3743322.1	440.5	0.00	1.70	0.85	YES
L0003064	0	0.28730E-07	479893.6	3743325.7	440.5	0.00	1.70	0.85	YES
L0003065	0	0.28730E-07	479893.6	3743329.4	440.5	0.00	1.70	0.85	YES
L0003066	0	0.28730E-07	479893.7	3743333.1	440.4	0.00	1.70	0.85	YES
L0003067	0	0.28730E-07	479893.7	3743336.7	440.4	0.00	1.70	0.85	YES
L0003068	0	0.28730E-07	479893.8	3743340.4	440.4	0.00	1.70	0.85	YES
L0003069	0	0.28730E-07	479894.4	3743344.0	440.4	0.00	1.70	0.85	YES
L0003070	0	0.28730E-07	479895.4	3743347.5	440.4	0.00	1.70	0.85	YES
L0003071	0	0.28730E-07	479896.4	3743351.0	440.3	0.00	1.70	0.85	YES
L0003072	0	0.28730E-07	479897.5	3743354.5	440.3	0.00	1.70	0.85	YES
L0003073	0	0.28730E-07	479898.4	3743358.0	440.3	0.00	1.70	0.85	YES
L0003074	0	0.28730E-07	479898.5	3743361.7	440.2	0.00	1.70	0.85	YES
L0003075	0	0.28730E-07	479898.6	3743365.3	440.2	0.00	1.70	0.85	YES
L0003076	0	0.28730E-07	479898.8	3743369.0	440.2	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003077	0	0.28730E-07	479898.9	3743372.6	440.2	0.00	1.70	0.85	YES	
L0003078	0	0.28730E-07	479899.0	3743376.3	440.1	0.00	1.70	0.85	YES	
L0003079	0	0.28730E-07	479899.2	3743379.9	440.1	0.00	1.70	0.85	YES	
L0003080	0	0.28730E-07	479899.3	3743383.6	440.1	0.00	1.70	0.85	YES	
L0003081	0	0.28730E-07	479899.4	3743387.3	440.0	0.00	1.70	0.85	YES	
L0003082	0	0.28730E-07	479899.5	3743390.9	440.0	0.00	1.70	0.85	YES	
L0003083	0	0.28730E-07	479899.7	3743394.6	439.9	0.00	1.70	0.85	YES	
L0003084	0	0.28730E-07	479899.8	3743398.2	439.9	0.00	1.70	0.85	YES	
L0003085	0	0.28730E-07	479899.9	3743401.9	439.9	0.00	1.70	0.85	YES	
L0003086	0	0.28730E-07	479900.1	3743405.5	439.8	0.00	1.70	0.85	YES	
L0003087	0	0.28730E-07	479900.2	3743409.2	439.8	0.00	1.70	0.85	YES	
L0003088	0	0.28730E-07	479900.3	3743412.8	439.8	0.00	1.70	0.85	YES	
L0003089	0	0.28730E-07	479900.4	3743416.5	439.8	0.00	1.70	0.85	YES	
L0003090	0	0.28730E-07	479900.6	3743420.2	439.8	0.00	1.70	0.85	YES	
L0003091	0	0.28730E-07	479900.7	3743423.8	439.8	0.00	1.70	0.85	YES	
L0003092	0	0.28730E-07	479900.8	3743427.5	439.8	0.00	1.70	0.85	YES	
L0003093	0	0.28730E-07	479901.0	3743431.1	439.8	0.00	1.70	0.85	YES	
L0003094	0	0.28730E-07	479901.1	3743434.8	439.8	0.00	1.70	0.85	YES	
L0003095	0	0.28730E-07	479901.2	3743438.4	439.8	0.00	1.70	0.85	YES	
L0003096	0	0.28730E-07	479901.3	3743442.1	439.8	0.00	1.70	0.85	YES	
L0003097	0	0.28730E-07	479901.5	3743445.7	439.8	0.00	1.70	0.85	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
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ALL	L0002757	,	L0002758	,	L0002759	,	L0002760	,	L0002761	,	L0002762	,	L0002763	,	L0002764	,
	L0002765	,	L0002766	,	L0002767	,	L0002768	,	L0002769	,	L0002770	,	L0002771	,	L0002772	,
	L0002773	,	L0002774	,	L0002775	,	L0002776	,	L0002777	,	L0002778	,	L0002779	,	L0002780	,
	L0002781	,	L0002782	,	L0002783	,	L0002784	,	L0002785	,	L0002786	,	L0002787	,	L0002788	,
	L0002789	,	L0002790	,	L0002791	,	L0002792	,	L0002793	,	L0002794	,	L0002795	,	L0002796	,
	L0002797	,	L0002798	,	L0002799	,	L0002800	,	L0002801	,	L0002802	,	L0002803	,	L0002804	,
	L0002805	,	L0002806	,	L0002807	,	L0002808	,	L0002809	,	L0002810	,	L0002811	,	L0002812	,
	L0002813	,	L0002814	,	L0002815	,	L0002816	,	L0002817	,	L0002818	,	L0002819	,	L0002820	,
	L0002821	,	L0002822	,	L0002823	,	L0002824	,	L0002825	,	L0002826	,	L0002827	,	L0002828	,
	L0002829	,	L0002830	,	L0002831	,	L0002832	,	L0002833	,	L0002834	,	L0002835	,	L0002836	,
	L0002837	,	L0002838	,	L0002839	,	L0002840	,	L0002841	,	L0002842	,	L0002843	,	L0002844	,
	L0002845	,	L0002846	,	L0002847	,	L0002848	,	L0002849	,	L0002850	,	L0002851	,	L0002852	,
	L0002853	,	L0002854	,	L0002855	,	L0002856	,	L0002857	,	L0002858	,	L0002859	,	L0002860	,
	L0002861	,	L0002862	,	L0002863	,	L0002864	,	L0002865	,	L0002866	,	L0002867	,	L0002868	,
	L0002869	,	L0002870	,	L0002871	,	L0002872	,	L0002873	,	L0002874	,	L0002875	,	L0002876	,
	L0002877	,	L0002878	,	L0002879	,	L0002880	,	L0002881	,	L0002882	,	L0002883	,	L0002884	,
	L0002885	,	L0002886	,	L0002887	,	L0002888	,	L0002889	,	L0002890	,	L0002891	,	L0002892	,
	L0002893	,	L0002894	,	L0002895	,	L0002896	,	L0002897	,	L0002898	,	L0002899	,	L0002900	,
	L0002901	,	L0002902	,	L0002903	,	L0002904	,	L0002905	,	L0002906	,	L0002907	,	L0002908	,
	L0002909	,	L0002910	,	L0002911	,	L0002912	,	L0002913	,	L0002914	,	L0002915	,	L0002916	,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
*** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0002917	,	L0002918	,	L0002919	,	L0002920	,	L0002921	,	L0002922	,	L0002923	,	L0002924	,
L0002925	,	L0002926	,	L0002927	,	L0002928	,	L0002929	,	L0002930	,	L0002931	,	L0002932	,
L0002933	,	L0002934	,	L0002935	,	L0002936	,	L0002937	,	L0002938	,	L0002939	,	L0002940	,
L0002941	,	L0002942	,	L0002943	,	L0002944	,	L0002945	,	L0002946	,	L0002947	,	L0002948	,
L0002949	,	L0002950	,	L0002951	,	L0002952	,	L0002953	,	L0002954	,	L0002955	,	L0002956	,
L0002957	,	L0002958	,	L0002959	,	L0002960	,	L0002961	,	L0002962	,	L0002963	,	L0002964	,
L0002965	,	L0002966	,	L0002967	,	L0002968	,	L0002969	,	L0002970	,	L0002971	,	L0002972	,
L0002973	,	L0002974	,	L0002975	,	L0002976	,	L0002977	,	L0002978	,	L0002979	,	L0002980	,
L0002981	,	L0002982	,	L0002983	,	L0002984	,	L0002985	,	L0002986	,	L0002987	,	L0002988	,
L0002989	,	L0002990	,	L0002991	,	L0002992	,	L0002993	,	L0002994	,	L0002995	,	L0002996	,
L0002997	,	L0002998	,	L0002999	,	L0003000	,	L0003001	,	L0003002	,	L0003003	,	L0003004	,
L0003005	,	L0003006	,	L0003007	,	L0003008	,	L0003009	,	L0003010	,	L0003011	,	L0003012	,
L0003013	,	L0003014	,	L0003015	,	L0003016	,	L0003017	,	L0003018	,	L0003019	,	L0003020	,
L0003021	,	L0003022	,	L0003023	,	L0003024	,	L0003025	,	L0003026	,	L0003027	,	L0003028	,
L0003029	,	L0003030	,	L0003031	,	L0003032	,	L0003033	,	L0003034	,	L0003035	,	L0003036	,
L0003037	,	L0003038	,	L0003039	,	L0003040	,	L0003041	,	L0003042	,	L0003043	,	L0003044	,
L0003045	,	L0003046	,	L0003047	,	L0003048	,	L0003049	,	L0003050	,	L0003051	,	L0003052	,
L0003053	,	L0003054	,	L0003055	,	L0003056	,	L0003057	,	L0003058	,	L0003059	,	L0003060	,
L0003061	,	L0003062	,	L0003063	,	L0003064	,	L0003065	,	L0003066	,	L0003067	,	L0003068	,
L0003069	,	L0003070	,	L0003071	,	L0003072	,	L0003073	,	L0003074	,	L0003075	,	L0003076	,

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*** AERMOD - VERSION 21112 ***   *** 19371 Redlands Ave East Industrial   ***   08/17/21
*** AERMET - VERSION 16216 ***   *** DPM Concentrations - 2026-2039   ***   20:15:49
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*** MODELOPTs:   RegDFAULT CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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SRCGROUP ID	SOURCE IDs							
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L0003077	, L0003078	, L0003079	, L0003080	, L0003081	, L0003082	, L0003083	, L0003084	,
L0003085	, L0003086	, L0003087	, L0003088	, L0003089	, L0003090	, L0003091	, L0003092	,
L0003093	, L0003094	, L0003095	, L0003096	, L0003097	, L0003098	, L0003099	, L0003100	,
L0003101	, L0003102	, L0003103	, L0003104	, L0003105	, L0003106	, L0003107	, L0003108	,
L0003109	, L0003110	, L0003111	, L0003112	, L0003113	, L0003114	, L0003115	, L0003116	,
L0003117	, L0003118	, L0003119	, L0003120	, L0003121	, L0003122	, L0003123	, L0003124	,
L0003125	, L0003126	, L0003127	, L0003128	, L0003129	, L0003130	, L0003131	, L0003132	,
STCK1	, STCK2	, STCK3	, STCK4	,				

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*** AERMOD - VERSION 21112 ***   *** 19371 Redlands Ave East Industrial   ***   08/17/21
*** AERMET - VERSION 16216 ***   *** DPM Concentrations - 2026-2039   ***   20:15:49
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*** MODELOPTs:   RegDFAULT CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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URBAN ID	URBAN POP	SOURCE IDs								
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L0002764	2189641.	L0002757	, L0002758	, L0002759	, L0002760	, L0002761	, L0002762	, L0002763	,	
	,									
		L0002765	, L0002766	, L0002767	, L0002768	, L0002769	, L0002770	, L0002771	, L0002772	,
		L0002773	, L0002774	, L0002775	, L0002776	, L0002777	, L0002778	, L0002779	, L0002780	,
		L0002781	, L0002782	, L0002783	, L0002784	, L0002785	, L0002786	, L0002787	, L0002788	,
		L0002789	, L0002790	, L0002791	, L0002792	, L0002793	, L0002794	, L0002795	, L0002796	,

L0002797 , L0002798 , L0002799 , L0002800 , L0002801 , L0002802 , L0002803 , L0002804 ,
 L0002805 , L0002806 , L0002807 , L0002808 , L0002809 , L0002810 , L0002811 , L0002812 ,
 L0002813 , L0002814 , L0002815 , L0002816 , L0002817 , L0002818 , L0002819 , L0002820 ,
 L0002821 , L0002822 , L0002823 , L0002824 , L0002825 , L0002826 , L0002827 , L0002828 ,
 L0002829 , L0002830 , L0002831 , L0002832 , L0002833 , L0002834 , L0002835 , L0002836 ,
 L0002837 , L0002838 , L0002839 , L0002840 , L0002841 , L0002842 , L0002843 , L0002844 ,
 L0002845 , L0002846 , L0002847 , L0002848 , L0002849 , L0002850 , L0002851 , L0002852 ,
 L0002853 , L0002854 , L0002855 , L0002856 , L0002857 , L0002858 , L0002859 , L0002860 ,
 L0002861 , L0002862 , L0002863 , L0002864 , L0002865 , L0002866 , L0002867 , L0002868 ,
 L0002869 , L0002870 , L0002871 , L0002872 , L0002873 , L0002874 , L0002875 , L0002876 ,
 L0002877 , L0002878 , L0002879 , L0002880 , L0002881 , L0002882 , L0002883 , L0002884 ,
 L0002885 , L0002886 , L0002887 , L0002888 , L0002889 , L0002890 , L0002891 , L0002892 ,
 L0002893 , L0002894 , L0002895 , L0002896 , L0002897 , L0002898 , L0002899 , L0002900 ,
 L0002901 , L0002902 , L0002903 , L0002904 , L0002905 , L0002906 , L0002907 , L0002908 ,
 L0002909 , L0002910 , L0002911 , L0002912 , L0002913 , L0002914 , L0002915 , L0002916 ,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs													
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L0002917	,	L0002918	,	L0002919	,	L0002920	,	L0002921	,	L0002922	,	L0002923	,	L0002924	,
L0002925	,	L0002926	,	L0002927	,	L0002928	,	L0002929	,	L0002930	,	L0002931	,	L0002932	,
L0002933	,	L0002934	,	L0002935	,	L0002936	,	L0002937	,	L0002938	,	L0002939	,	L0002940	,
L0002941	,	L0002942	,	L0002943	,	L0002944	,	L0002945	,	L0002946	,	L0002947	,	L0002948	,

L0003109 , L0003110 , L0003111 , L0003112 , L0003113 , L0003114 , L0003115 , L0003116 ,
 L0003117 , L0003118 , L0003119 , L0003120 , L0003121 , L0003122 , L0003123 , L0003124 ,
 L0003125 , L0003126 , L0003127 , L0003128 , L0003129 , L0003130 , L0003131 , L0003132 ,
 STCK1 , STCK2 , STCK3 , STCK4 ,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-72.0	68.3	2	14.0	180.5	244.9	-89.3	74.8
3	14.0	207.0	246.7	-104.0	79.1	4	14.0	227.1	241.0	-115.5	81.0
5	14.0	240.4	228.0	-123.4	80.3	6	14.0	246.4	208.1	-127.7	77.3
7	14.0	244.9	181.8	-128.0	71.9	8	14.0	235.9	150.0	-124.5	64.3
9	14.0	222.0	115.9	-119.4	55.9	10	14.0	235.7	148.6	-142.6	45.8
11	14.0	244.9	180.5	-165.1	33.1	12	14.0	246.7	207.0	-182.6	19.4
13	14.0	241.0	227.1	-194.5	5.0	14	14.0	228.0	240.4	-200.6	-9.4
15	14.0	208.1	246.4	-200.5	-23.6	16	14.0	181.8	244.9	-194.3	-37.1
17	14.0	150.0	235.9	-182.3	-49.4	18	14.0	115.9	222.0	-166.8	-61.4
19	14.0	148.6	235.7	-163.7	-68.3	20	14.0	180.5	244.9	-155.6	-74.8
21	14.0	207.0	246.7	-142.8	-79.1	22	14.0	227.1	241.0	-125.6	-81.0
23	14.0	240.4	228.0	-104.6	-80.3	24	14.0	246.4	208.1	-80.4	-77.3
25	14.0	244.9	181.8	-53.8	-71.9	26	14.0	235.9	150.0	-25.5	-64.3
27	14.0	222.0	115.9	3.5	-55.9	28	14.0	235.7	148.6	-6.0	-45.8
29	14.0	244.9	180.5	-15.4	-33.1	30	14.0	246.7	207.0	-24.4	-19.4
31	14.0	241.0	227.1	-32.6	-5.0	32	14.0	228.0	240.4	-39.9	9.4
33	14.0	208.1	246.4	-45.9	23.6	34	14.0	181.8	244.9	-50.5	37.1
35	14.0	150.0	235.9	-53.6	49.4	36	14.0	115.9	222.0	-55.1	61.4

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-106.9	61.7	2	14.0	180.5	244.9	-122.6	62.2
3	14.0	207.0	246.7	-134.5	60.9	4	14.0	227.1	241.0	-142.4	57.7
5	14.0	240.4	228.0	-145.9	52.8	6	14.0	246.4	208.1	-145.0	46.3
7	14.0	244.9	181.8	-139.7	38.3	8	14.0	235.9	150.0	-130.2	29.2
9	14.0	222.0	115.9	-118.9	20.3	10	14.0	235.7	148.6	-135.9	10.9
11	14.0	244.9	180.5	-152.5	-0.1	12	14.0	246.7	207.0	-164.4	-11.2
13	14.0	241.0	227.1	-171.3	-21.9	14	14.0	228.0	240.4	-173.0	-31.9
15	14.0	208.1	246.4	-169.5	-41.0	16	14.0	181.8	244.9	-160.8	-48.8
17	14.0	150.0	235.9	-147.2	-55.1	18	14.0	115.9	222.0	-131.3	-61.0
19	14.0	148.6	235.7	-128.8	-61.7	20	14.0	180.5	244.9	-122.3	-62.2

21	14.0,	207.0,	246.7,	-112.2,	-60.9,	22	14.0,	227.1,	241.0,	-98.6,	-57.7,
23	14.0,	240.4,	228.0,	-82.1,	-52.8,	24	14.0,	246.4,	208.1,	-63.0,	-46.3,
25	14.0,	244.9,	181.8,	-42.1,	-38.3,	26	14.0,	235.9,	150.0,	-19.8,	-29.2,
27	14.0,	222.0,	115.9,	3.0,	-20.3,	28	14.0,	235.7,	148.6,	-12.6,	-10.9,
29	14.0,	244.9,	180.5,	-28.0,	0.1,	30	14.0,	246.7,	207.0,	-42.6,	11.2,
31	14.0,	241.0,	227.1,	-55.8,	21.9,	32	14.0,	228.0,	240.4,	-67.4,	31.9,
33	14.0,	208.1,	246.4,	-76.9,	41.0,	34	14.0,	181.8,	244.9,	-84.1,	48.8,
35	14.0,	150.0,	235.9,	-88.7,	55.1,	36	14.0,	115.9,	222.0,	-90.7,	61.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-140.4,	55.1,	2	14.0,	180.5,	244.9,	-154.4,	49.9,
3	14.0,	207.0,	246.7,	-163.7,	43.3,	4	14.0,	227.1,	241.0,	-168.1,	35.3,
5	14.0,	240.4,	228.0,	-167.3,	26.2,	6	14.0,	246.4,	208.1,	-161.5,	16.4,
7	14.0,	244.9,	181.8,	-150.7,	6.0,	8	14.0,	235.9,	150.0,	-135.4,	-4.5,
9	14.0,	222.0,	115.9,	-118.3,	-13.8,	10	14.0,	235.7,	148.6,	-129.4,	-22.6,
11	14.0,	244.9,	180.5,	-140.2,	-31.9,	12	14.0,	246.7,	207.0,	-146.8,	-40.4,
13	14.0,	241.0,	227.1,	-148.9,	-47.6,	14	14.0,	228.0,	240.4,	-146.5,	-53.3,
15	14.0,	208.1,	246.4,	-139.6,	-57.5,	16	14.0,	181.8,	244.9,	-128.5,	-59.8,
17	14.0,	150.0,	235.9,	-113.5,	-60.4,	18	14.0,	115.9,	222.0,	-97.2,	-60.3,
19	14.0,	148.6,	235.7,	-95.3,	-55.1,	20	14.0,	180.5,	244.9,	-90.5,	-49.9,
21	14.0,	207.0,	246.7,	-83.0,	-43.3,	22	14.0,	227.1,	241.0,	-73.0,	-35.3,
23	14.0,	240.4,	228.0,	-60.7,	-26.2,	24	14.0,	246.4,	208.1,	-46.6,	-16.4,
25	14.0,	244.9,	181.8,	-31.1,	-6.0,	26	14.0,	235.9,	150.0,	-14.6,	4.5,
27	14.0,	222.0,	115.9,	2.3,	13.8,	28	14.0,	235.7,	148.6,	-19.2,	22.6,
29	14.0,	244.9,	180.5,	-40.3,	31.9,	30	14.0,	246.7,	207.0,	-60.2,	40.4,
31	14.0,	241.0,	227.1,	-78.3,	47.6,	32	14.0,	228.0,	240.4,	-94.0,	53.3,
33	14.0,	208.1,	246.4,	-106.8,	57.5,	34	14.0,	181.8,	244.9,	-116.4,	59.8,
35	14.0,	150.0,	235.9,	-122.5,	60.4,	36	14.0,	115.9,	222.0,	-124.8,	60.3,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-177.9,	45.9,	2	14.0,	180.5,	244.9,	-189.7,	34.3,
3	14.0,	207.0,	246.7,	-195.8,	21.8,	4	14.0,	227.1,	241.0,	-195.9,	8.6,
5	14.0,	240.4,	228.0,	-190.1,	-4.9,	6	14.0,	246.4,	208.1,	-178.5,	-18.2,
7	14.0,	244.9,	181.8,	-161.5,	-31.0,	8	14.0,	235.9,	150.0,	-139.6,	-42.9,
9	14.0,	222.0,	115.9,	-115.7,	-52.3,	10	14.0,	235.7,	148.6,	-120.1,	-60.0,
11	14.0,	244.9,	180.5,	-124.6,	-67.3,	12	14.0,	246.7,	207.0,	-125.3,	-72.4,
13	14.0,	241.0,	227.1,	-122.1,	-75.4,	14	14.0,	228.0,	240.4,	-115.3,	-76.1,
15	14.0,	208.1,	246.4,	-105.0,	-74.5,	16	14.0,	181.8,	244.9,	-91.4,	-70.6,
17	14.0,	150.0,	235.9,	-75.1,	-64.6,	18	14.0,	115.9,	222.0,	-58.7,	-57.7,
19	14.0,	148.6,	235.7,	-57.8,	-45.9,	20	14.0,	180.5,	244.9,	-55.2,	-34.3,
21	14.0,	207.0,	246.7,	-50.9,	-21.8,	22	14.0,	227.1,	241.0,	-45.1,	-8.6,
23	14.0,	240.4,	228.0,	-37.9,	4.9,	24	14.0,	246.4,	208.1,	-29.5,	18.2,
25	14.0,	244.9,	181.8,	-20.3,	31.0,	26	14.0,	235.9,	150.0,	-10.4,	42.9,
27	14.0,	222.0,	115.9,	-0.2,	52.3,	28	14.0,	235.7,	148.6,	-28.4,	60.0,
29	14.0,	244.9,	180.5,	-55.9,	67.3,	30	14.0,	246.7,	207.0,	-81.7,	72.4,
31	14.0,	241.0,	227.1,	-105.0,	75.4,	32	14.0,	228.0,	240.4,	-125.1,	76.1,
33	14.0,	208.1,	246.4,	-141.4,	74.5,	34	14.0,	181.8,	244.9,	-153.5,	70.6,

35 14.0, 150.0, 235.9, -160.8, 64.6, 36 14.0, 115.9, 222.0, -163.3, 57.7,

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2026-2039 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

479078.2, 479169.0, 479259.9, 479350.8, 479441.7, 479532.6, 479623.4, 479714.3, 479805.2, 479896.1,
479987.0, 480077.8, 480168.7, 480259.6, 480350.5, 480441.4, 480532.2, 480623.1, 480714.0, 480804.9,
480895.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3742099.5, 3742178.4, 3742257.3, 3742336.2, 3742415.1, 3742494.0, 3742573.0, 3742651.9, 3742730.8, 3742809.7,
3742888.6, 3742967.5, 3743046.4, 3743125.3, 3743204.2, 3743283.1, 3743362.1, 3743441.0, 3743519.9, 3743598.8,
3743677.7,

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial 08/17/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2026-2039 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	479078.16	479169.04	479259.92	479350.80	479441.68	479532.56	479623.44	479714.32	479805.20
3743677.70	444.10	443.80	443.20	442.70	442.30	441.10	440.40	440.50	440.50
3743598.79	443.60	443.50	443.10	442.60	442.30	440.40	440.20	439.80	439.30
3743519.88	443.70	443.80	443.50	442.80	441.80	440.50	440.40	440.40	439.70
3743440.97	443.70	443.60	443.20	442.80	441.10	440.20	439.40	439.60	439.50
3743362.06	443.60	443.30	442.80	442.30	442.00	441.00	440.50	440.70	440.00
3743283.15	443.80	443.30	442.20	441.90	440.80	441.30	441.10	440.90	440.40
3743204.24	444.00	443.40	442.60	442.50	441.60	441.10	441.30	441.10	440.70
3743125.33	444.00	443.00	442.70	442.40	442.10	440.50	440.30	440.40	441.00
3743046.42	443.90	443.00	442.70	442.40	442.20	441.90	441.40	441.20	440.80
3742967.51	443.70	443.10	442.60	442.20	442.00	441.70	441.30	440.90	440.60
3742888.60	443.50	443.00	442.60	442.20	442.00	441.70	441.40	441.00	440.70
3742809.69	442.90	442.80	442.20	442.00	441.80	441.30	440.50	440.70	440.50

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	480714.00	480804.88	480895.76
3743677.70	440.70	441.10	441.40
3743598.79	441.00	441.60	442.10
3743519.88	441.10	441.60	441.70
3743440.97	441.00	441.50	441.30
3743362.06	440.60	440.90	440.70
3743283.15	439.20	439.30	439.50
3743204.24	439.20	439.40	439.60
3743125.33	439.70	440.20	440.60
3743046.42	439.30	440.60	441.00
3742967.51	436.00	439.90	440.20
3742888.60	435.50	439.40	440.40
3742809.69	436.60	437.10	439.80
3742730.78	437.70	435.20	439.30
3742651.87	437.80	435.00	437.90
3742572.96	437.90	435.80	437.50
3742494.05	437.80	437.20	437.10
3742415.14	438.00	437.30	435.10
3742336.23	438.00	437.30	435.10
3742257.32	437.80	437.20	435.90
3742178.41	437.40	437.10	436.00
3742099.50	437.50	436.90	435.60

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039 *** 20:15:49
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* *** PAGE 24

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	479078.16	479169.04	479259.92	479350.80	479441.68	479532.56	479623.44	479714.32	479805.20
3743677.70	444.10	443.80	443.20	442.70	442.30	441.10	440.40	440.50	440.50
3743598.79	443.60	443.50	443.10	442.60	442.30	440.40	440.20	439.80	439.30
3743519.88	443.70	443.80	443.50	442.80	441.80	440.50	440.40	440.40	439.70
3743440.97	443.70	443.60	443.20	442.80	441.10	440.20	439.40	439.60	439.50
3743362.06	443.60	443.30	442.80	442.30	442.00	441.00	440.50	440.70	440.00
3743283.15	443.80	443.30	442.20	441.90	440.80	441.30	441.10	440.90	440.40
3743204.24	444.00	443.40	442.60	442.50	441.60	441.10	441.30	441.10	440.70
3743125.33	444.00	443.00	442.70	442.40	442.10	440.50	440.30	440.40	441.00
3743046.42	443.90	443.00	442.70	442.40	442.20	441.90	441.40	441.20	440.80

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	480714.00	480804.88	480895.76	X-COORD (METERS)
3743677.70	440.70	441.10	441.40	
3743598.79	441.00	441.60	442.10	
3743519.88	441.10	441.60	441.70	
3743440.97	441.00	441.50	441.30	
3743362.06	440.60	440.90	440.70	
3743283.15	439.20	439.30	439.50	
3743204.24	439.20	439.40	439.60	
3743125.33	439.70	440.20	440.60	
3743046.42	439.30	440.60	441.00	
3742967.51	436.00	439.90	440.20	
3742888.60	435.50	439.40	440.40	
3742809.69	436.60	437.10	439.80	
3742730.78	437.70	435.20	439.30	
3742651.87	437.80	435.00	437.90	
3742572.96	437.90	435.80	437.50	
3742494.05	437.80	437.20	437.10	
3742415.14	438.00	437.30	435.10	
3742336.23	438.00	437.30	435.10	
3742257.32	437.80	437.20	435.90	
3742178.41	437.40	437.10	436.00	
3742099.50	437.50	436.90	435.60	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(479945.7, 3742742.3,	440.0,	440.0,	0.0);	(479918.5, 3742530.0,	439.9,	439.9,	0.0);
(480257.8, 3742923.6,	438.8,	438.8,	0.0);	(480244.2, 3743075.6,	439.2,	439.2,	0.0);
(480129.0, 3743128.0,	439.8,	439.8,	0.0);	(480038.2, 3743314.8,	439.8,	439.8,	0.0);
(479607.4, 3742910.0,	441.5,	441.5,	0.0);	(479740.5, 3742698.9,	440.3,	440.3,	0.0);
(479757.3, 3743380.4,	440.4,	440.4,	0.0);				

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

Profile format: FREE
 Surface station no.: 3171
 Name: UNKNOWN
 Year: 2010

Upper air station no.: 3190
 Name: UNKNOWN
 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5			
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5			
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5			
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5			
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5			
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5			
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5			
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5			
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5			
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5			
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5			
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5			
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5			
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5			
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5			
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5			
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5			
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5			
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5			
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5			
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5			
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5			
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5			
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0002757 , L0002758 , L0002759 , L0002760 , L0002761 ,
 L0002762 , L0002763 , L0002764 , L0002765 , L0002766 , L0002767 , L0002768 , L0002769 ,
 L0002770 , L0002771 , L0002772 , L0002773 , L0002774 , L0002775 , L0002776 , L0002777 ,
 L0002778 , L0002779 , L0002780 , L0002781 , L0002782 , L0002783 , L0002784 , . . . ,

3742809.69	0.00018	0.00014	0.00012
3742730.78	0.00018	0.00014	0.00012
3742651.87	0.00019	0.00015	0.00012
3742572.96	0.00019	0.00015	0.00012
3742494.05	0.00019	0.00015	0.00012
3742415.14	0.00019	0.00015	0.00012
3742336.23	0.00018	0.00014	0.00011
3742257.32	0.00017	0.00013	0.00011
3742178.41	0.00016	0.00013	0.00010
3742099.50	0.00015	0.00012	0.00010

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0002757 , L0002758 , L0002759 , L0002760 , L0002761 ,
 L0002762 , L0002763 , L0002764 , L0002765 , L0002766 , L0002767 , L0002768 , L0002769 ,
 L0002770 , L0002771 , L0002772 , L0002773 , L0002774 , L0002775 , L0002776 , L0002777 ,
 L0002778 , L0002779 , L0002780 , L0002781 , L0002782 , L0002783 , L0002784 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479945.68	3742742.32	0.00225	479918.48	3742530.00	0.00060
480257.79	3742923.65	0.00084	480244.23	3743075.64	0.00093
480128.98	3743127.99	0.00148	480038.23	3743314.81	0.00104
479607.39	3742910.04	0.00048	479740.51	3742698.91	0.00058
479757.35	3743380.40	0.00071			

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/17/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2026-2039 *** 20:15:49
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00481 AT (480077.84, 3742888.60, 439.40, 439.40, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00471 AT (480077.84, 3742809.69, 439.40, 439.40, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00448 AT (479896.08, 3743046.42, 440.70, 440.70, 0.00)	GC	UCART1


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** Lakes Environmental AERMOD MPI
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/18/2021
** File: C:\Lakes\19371 Redlands Avenue East 2040-53\19371 Redlands Avenue East 2040-53.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE 19371 Redlands Ave East Industrial
  TITLETWO DPM Concentrations - 2040-2053
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2189641 Riverside_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "19371 Redlands Avenue East 2040-53.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Northern project drive to loading to southern project drive
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 6.08E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 9
** 479892.242, 3742773.165, 440.27, 0.00, 1.70
** 479918.594, 3742770.631, 440.11, 0.00, 1.70

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** 479930.481, 3742766.507, 440.01, 0.00, 1.70
 ** 480061.235, 3742767.720, 439.55, 0.00, 1.70
 ** 480062.694, 3743002.863, 439.74, 0.00, 1.70
 ** 480062.670, 3743004.786, 439.74, 0.00, 1.70
 ** 479934.893, 3743004.476, 440.18, 0.00, 1.70
 ** 479917.905, 3742998.550, 440.32, 0.00, 1.70
 ** 479894.578, 3742998.262, 440.60, 0.00, 1.70

** -----

LOCATION	VOLUME				
L0003133	479894.062	3742772.990	440.28		
L0003134	479897.703	3742772.640	440.24		
L0003135	479901.344	3742772.290	440.21		
L0003136	479904.985	3742771.940	440.17		
L0003137	479908.625	3742771.590	440.14		
L0003138	479912.266	3742771.240	440.11		
L0003139	479915.907	3742770.890	440.09		
L0003140	479919.499	3742770.317	440.07		
L0003141	479922.955	3742769.119	440.05		
L0003142	479926.410	3742767.920	440.03		
L0003143	479929.866	3742766.721	440.01		
L0003144	479933.488	3742766.535	439.99		
L0003145	479937.145	3742766.569	439.97		
L0003146	479940.802	3742766.603	439.96		
L0003147	479944.460	3742766.637	439.95		
L0003148	479948.117	3742766.671	439.94		
L0003149	479951.775	3742766.705	439.92		
L0003150	479955.432	3742766.739	439.91		
L0003151	479959.090	3742766.773	439.90		
L0003152	479962.747	3742766.807	439.89		
L0003153	479966.405	3742766.841	439.88		
L0003154	479970.062	3742766.875	439.87		
L0003155	479973.719	3742766.909	439.87		
L0003156	479977.377	3742766.943	439.86		
L0003157	479981.034	3742766.976	439.85		
L0003158	479984.692	3742767.010	439.85		
L0003159	479988.349	3742767.044	439.84		
L0003160	479992.007	3742767.078	439.82		
L0003161	479995.664	3742767.112	439.81		
L0003162	479999.322	3742767.146	439.80		
L0003163	480002.979	3742767.180	439.78		
L0003164	480006.636	3742767.214	439.77		
L0003165	480010.294	3742767.248	439.75		
L0003166	480013.951	3742767.282	439.74		
L0003167	480017.609	3742767.316	439.72		
L0003168	480021.266	3742767.350	439.71		
L0003169	480024.924	3742767.384	439.69		
L0003170	480028.581	3742767.417	439.68		
L0003171	480032.238	3742767.451	439.66		
L0003172	480035.896	3742767.485	439.65		
L0003173	480039.553	3742767.519	439.63		
L0003174	480043.211	3742767.553	439.62		
L0003175	480046.868	3742767.587	439.60		

LOCATION	L0003176	VOLUME	480050.526	3742767.621	439.59
LOCATION	L0003177	VOLUME	480054.183	3742767.655	439.57
LOCATION	L0003178	VOLUME	480057.841	3742767.689	439.56
LOCATION	L0003179	VOLUME	480061.237	3742767.983	439.54
LOCATION	L0003180	VOLUME	480061.259	3742771.641	439.54
LOCATION	L0003181	VOLUME	480061.282	3742775.298	439.53
LOCATION	L0003182	VOLUME	480061.305	3742778.956	439.52
LOCATION	L0003183	VOLUME	480061.328	3742782.613	439.51
LOCATION	L0003184	VOLUME	480061.350	3742786.271	439.50
LOCATION	L0003185	VOLUME	480061.373	3742789.928	439.49
LOCATION	L0003186	VOLUME	480061.396	3742793.586	439.48
LOCATION	L0003187	VOLUME	480061.418	3742797.244	439.48
LOCATION	L0003188	VOLUME	480061.441	3742800.901	439.47
LOCATION	L0003189	VOLUME	480061.464	3742804.559	439.46
LOCATION	L0003190	VOLUME	480061.486	3742808.216	439.45
LOCATION	L0003191	VOLUME	480061.509	3742811.874	439.45
LOCATION	L0003192	VOLUME	480061.532	3742815.531	439.44
LOCATION	L0003193	VOLUME	480061.555	3742819.189	439.43
LOCATION	L0003194	VOLUME	480061.577	3742822.846	439.43
LOCATION	L0003195	VOLUME	480061.600	3742826.504	439.42
LOCATION	L0003196	VOLUME	480061.623	3742830.161	439.42
LOCATION	L0003197	VOLUME	480061.645	3742833.819	439.42
LOCATION	L0003198	VOLUME	480061.668	3742837.476	439.41
LOCATION	L0003199	VOLUME	480061.691	3742841.134	439.41
LOCATION	L0003200	VOLUME	480061.713	3742844.791	439.40
LOCATION	L0003201	VOLUME	480061.736	3742848.449	439.40
LOCATION	L0003202	VOLUME	480061.759	3742852.106	439.40
LOCATION	L0003203	VOLUME	480061.782	3742855.764	439.41
LOCATION	L0003204	VOLUME	480061.804	3742859.422	439.41
LOCATION	L0003205	VOLUME	480061.827	3742863.079	439.42
LOCATION	L0003206	VOLUME	480061.850	3742866.737	439.42
LOCATION	L0003207	VOLUME	480061.872	3742870.394	439.43
LOCATION	L0003208	VOLUME	480061.895	3742874.052	439.44
LOCATION	L0003209	VOLUME	480061.918	3742877.709	439.44
LOCATION	L0003210	VOLUME	480061.940	3742881.367	439.45
LOCATION	L0003211	VOLUME	480061.963	3742885.024	439.45
LOCATION	L0003212	VOLUME	480061.986	3742888.682	439.46
LOCATION	L0003213	VOLUME	480062.009	3742892.339	439.46
LOCATION	L0003214	VOLUME	480062.031	3742895.997	439.47
LOCATION	L0003215	VOLUME	480062.054	3742899.654	439.47
LOCATION	L0003216	VOLUME	480062.077	3742903.312	439.48
LOCATION	L0003217	VOLUME	480062.099	3742906.969	439.48
LOCATION	L0003218	VOLUME	480062.122	3742910.627	439.48
LOCATION	L0003219	VOLUME	480062.145	3742914.284	439.49
LOCATION	L0003220	VOLUME	480062.167	3742917.942	439.51
LOCATION	L0003221	VOLUME	480062.190	3742921.600	439.52
LOCATION	L0003222	VOLUME	480062.213	3742925.257	439.53
LOCATION	L0003223	VOLUME	480062.236	3742928.915	439.54
LOCATION	L0003224	VOLUME	480062.258	3742932.572	439.56
LOCATION	L0003225	VOLUME	480062.281	3742936.230	439.57
LOCATION	L0003226	VOLUME	480062.304	3742939.887	439.58

LOCATION	L0003227	VOLUME	480062.326	3742943.545	439.59
LOCATION	L0003228	VOLUME	480062.349	3742947.202	439.60
LOCATION	L0003229	VOLUME	480062.372	3742950.860	439.61
LOCATION	L0003230	VOLUME	480062.394	3742954.517	439.61
LOCATION	L0003231	VOLUME	480062.417	3742958.175	439.62
LOCATION	L0003232	VOLUME	480062.440	3742961.832	439.63
LOCATION	L0003233	VOLUME	480062.463	3742965.490	439.63
LOCATION	L0003234	VOLUME	480062.485	3742969.147	439.64
LOCATION	L0003235	VOLUME	480062.508	3742972.805	439.65
LOCATION	L0003236	VOLUME	480062.531	3742976.462	439.66
LOCATION	L0003237	VOLUME	480062.553	3742980.120	439.67
LOCATION	L0003238	VOLUME	480062.576	3742983.778	439.68
LOCATION	L0003239	VOLUME	480062.599	3742987.435	439.69
LOCATION	L0003240	VOLUME	480062.621	3742991.093	439.70
LOCATION	L0003241	VOLUME	480062.644	3742994.750	439.71
LOCATION	L0003242	VOLUME	480062.667	3742998.408	439.73
LOCATION	L0003243	VOLUME	480062.690	3743002.065	439.74
LOCATION	L0003244	VOLUME	480061.734	3743004.784	439.75
LOCATION	L0003245	VOLUME	480058.076	3743004.775	439.76
LOCATION	L0003246	VOLUME	480054.419	3743004.766	439.78
LOCATION	L0003247	VOLUME	480050.761	3743004.757	439.79
LOCATION	L0003248	VOLUME	480047.104	3743004.749	439.80
LOCATION	L0003249	VOLUME	480043.446	3743004.740	439.81
LOCATION	L0003250	VOLUME	480039.789	3743004.731	439.83
LOCATION	L0003251	VOLUME	480036.131	3743004.722	439.84
LOCATION	L0003252	VOLUME	480032.473	3743004.713	439.86
LOCATION	L0003253	VOLUME	480028.816	3743004.704	439.87
LOCATION	L0003254	VOLUME	480025.158	3743004.695	439.88
LOCATION	L0003255	VOLUME	480021.501	3743004.686	439.90
LOCATION	L0003256	VOLUME	480017.843	3743004.677	439.91
LOCATION	L0003257	VOLUME	480014.185	3743004.669	439.93
LOCATION	L0003258	VOLUME	480010.528	3743004.660	439.94
LOCATION	L0003259	VOLUME	480006.870	3743004.651	439.95
LOCATION	L0003260	VOLUME	480003.213	3743004.642	439.97
LOCATION	L0003261	VOLUME	479999.555	3743004.633	439.98
LOCATION	L0003262	VOLUME	479995.897	3743004.624	440.00
LOCATION	L0003263	VOLUME	479992.240	3743004.615	440.01
LOCATION	L0003264	VOLUME	479988.582	3743004.606	440.02
LOCATION	L0003265	VOLUME	479984.925	3743004.597	440.04
LOCATION	L0003266	VOLUME	479981.267	3743004.588	440.05
LOCATION	L0003267	VOLUME	479977.610	3743004.580	440.06
LOCATION	L0003268	VOLUME	479973.952	3743004.571	440.07
LOCATION	L0003269	VOLUME	479970.294	3743004.562	440.09
LOCATION	L0003270	VOLUME	479966.637	3743004.553	440.10
LOCATION	L0003271	VOLUME	479962.979	3743004.544	440.11
LOCATION	L0003272	VOLUME	479959.322	3743004.535	440.12
LOCATION	L0003273	VOLUME	479955.664	3743004.526	440.13
LOCATION	L0003274	VOLUME	479952.006	3743004.517	440.14
LOCATION	L0003275	VOLUME	479948.349	3743004.508	440.15
LOCATION	L0003276	VOLUME	479944.691	3743004.500	440.16
LOCATION	L0003277	VOLUME	479941.034	3743004.491	440.17

LOCATION L0003278	VOLUME	479937.376	3743004.482	440.18
LOCATION L0003279	VOLUME	479933.784	3743004.089	440.20
LOCATION L0003280	VOLUME	479930.330	3743002.884	440.21
LOCATION L0003281	VOLUME	479926.877	3743001.679	440.23
LOCATION L0003282	VOLUME	479923.423	3743000.475	440.25
LOCATION L0003283	VOLUME	479919.970	3742999.270	440.27
LOCATION L0003284	VOLUME	479916.434	3742998.532	440.29
LOCATION L0003285	VOLUME	479912.777	3742998.487	440.31
LOCATION L0003286	VOLUME	479909.120	3742998.442	440.35
LOCATION L0003287	VOLUME	479905.463	3742998.397	440.39
LOCATION L0003288	VOLUME	479901.805	3742998.351	440.43
LOCATION L0003289	VOLUME	479898.148	3742998.306	440.47

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Redlands Ave S project driveway to N project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 8.34E-07

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

** Nodes = 2

** 479887.270, 3742772.613, 440.29, 0.00, 1.70

** 479888.653, 3742998.428, 440.60, 0.00, 1.70

** -----

LOCATION L0003290	VOLUME	479887.281	3742774.441	440.35
LOCATION L0003291	VOLUME	479887.304	3742778.099	440.36
LOCATION L0003292	VOLUME	479887.326	3742781.757	440.36
LOCATION L0003293	VOLUME	479887.349	3742785.414	440.37
LOCATION L0003294	VOLUME	479887.371	3742789.072	440.38
LOCATION L0003295	VOLUME	479887.393	3742792.729	440.39
LOCATION L0003296	VOLUME	479887.416	3742796.387	440.40
LOCATION L0003297	VOLUME	479887.438	3742800.044	440.42
LOCATION L0003298	VOLUME	479887.461	3742803.702	440.43
LOCATION L0003299	VOLUME	479887.483	3742807.359	440.44
LOCATION L0003300	VOLUME	479887.505	3742811.017	440.46
LOCATION L0003301	VOLUME	479887.528	3742814.674	440.47
LOCATION L0003302	VOLUME	479887.550	3742818.332	440.48
LOCATION L0003303	VOLUME	479887.573	3742821.989	440.49
LOCATION L0003304	VOLUME	479887.595	3742825.647	440.49
LOCATION L0003305	VOLUME	479887.617	3742829.304	440.50
LOCATION L0003306	VOLUME	479887.640	3742832.962	440.50
LOCATION L0003307	VOLUME	479887.662	3742836.620	440.51
LOCATION L0003308	VOLUME	479887.685	3742840.277	440.51
LOCATION L0003309	VOLUME	479887.707	3742843.935	440.51
LOCATION L0003310	VOLUME	479887.729	3742847.592	440.52
LOCATION L0003311	VOLUME	479887.752	3742851.250	440.52
LOCATION L0003312	VOLUME	479887.774	3742854.907	440.52

LOCATION	L0003313	VOLUME	479887.797	3742858.565	440.52
LOCATION	L0003314	VOLUME	479887.819	3742862.222	440.51
LOCATION	L0003315	VOLUME	479887.841	3742865.880	440.51
LOCATION	L0003316	VOLUME	479887.864	3742869.537	440.51
LOCATION	L0003317	VOLUME	479887.886	3742873.195	440.50
LOCATION	L0003318	VOLUME	479887.909	3742876.852	440.50
LOCATION	L0003319	VOLUME	479887.931	3742880.510	440.50
LOCATION	L0003320	VOLUME	479887.953	3742884.167	440.49
LOCATION	L0003321	VOLUME	479887.976	3742887.825	440.48
LOCATION	L0003322	VOLUME	479887.998	3742891.483	440.48
LOCATION	L0003323	VOLUME	479888.021	3742895.140	440.47
LOCATION	L0003324	VOLUME	479888.043	3742898.798	440.46
LOCATION	L0003325	VOLUME	479888.065	3742902.455	440.46
LOCATION	L0003326	VOLUME	479888.088	3742906.113	440.45
LOCATION	L0003327	VOLUME	479888.110	3742909.770	440.44
LOCATION	L0003328	VOLUME	479888.133	3742913.428	440.44
LOCATION	L0003329	VOLUME	479888.155	3742917.085	440.44
LOCATION	L0003330	VOLUME	479888.177	3742920.743	440.45
LOCATION	L0003331	VOLUME	479888.200	3742924.400	440.45
LOCATION	L0003332	VOLUME	479888.222	3742928.058	440.45
LOCATION	L0003333	VOLUME	479888.245	3742931.715	440.46
LOCATION	L0003334	VOLUME	479888.267	3742935.373	440.46
LOCATION	L0003335	VOLUME	479888.289	3742939.030	440.46
LOCATION	L0003336	VOLUME	479888.312	3742942.688	440.47
LOCATION	L0003337	VOLUME	479888.334	3742946.345	440.47
LOCATION	L0003338	VOLUME	479888.357	3742950.003	440.48
LOCATION	L0003339	VOLUME	479888.379	3742953.661	440.49
LOCATION	L0003340	VOLUME	479888.401	3742957.318	440.50
LOCATION	L0003341	VOLUME	479888.424	3742960.976	440.50
LOCATION	L0003342	VOLUME	479888.446	3742964.633	440.51
LOCATION	L0003343	VOLUME	479888.469	3742968.291	440.52
LOCATION	L0003344	VOLUME	479888.491	3742971.948	440.52
LOCATION	L0003345	VOLUME	479888.513	3742975.606	440.53
LOCATION	L0003346	VOLUME	479888.536	3742979.263	440.54
LOCATION	L0003347	VOLUME	479888.558	3742982.921	440.54
LOCATION	L0003348	VOLUME	479888.581	3742986.578	440.55
LOCATION	L0003349	VOLUME	479888.603	3742990.236	440.55
LOCATION	L0003350	VOLUME	479888.625	3742993.893	440.56
LOCATION	L0003351	VOLUME	479888.648	3742997.551	440.57

** End of LINE VOLUME Source ID = SLINE2

**

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Redlands Ave north of northern project driveway

** PREFIX

** Length of Side = 3.66

** Configuration = Adjacent

** Emission Rate = 4.24E-06

** Elevated

** Vertical Dimension = 3.66

** SZINIT = 0.85

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** Nodes = 4
** 479888.636, 3743002.089, 440.60, 0.00, 1.70
** 479893.826, 3743342.010, 440.41, 0.00, 1.70
** 479898.370, 3743357.588, 440.21, 0.00, 1.70
** 479906.036, 3743575.324, 439.75, 0.00, 1.70

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** LOCATION L0003352    VOLUME  479888.664 3743003.918 440.58
LOCATION L0003353    VOLUME  479888.720 3743007.575 440.59
LOCATION L0003354    VOLUME  479888.776 3743011.232 440.61
LOCATION L0003355    VOLUME  479888.831 3743014.889 440.62
LOCATION L0003356    VOLUME  479888.887 3743018.547 440.64
LOCATION L0003357    VOLUME  479888.943 3743022.204 440.65
LOCATION L0003358    VOLUME  479888.999 3743025.861 440.67
LOCATION L0003359    VOLUME  479889.055 3743029.518 440.68
LOCATION L0003360    VOLUME  479889.111 3743033.175 440.70
LOCATION L0003361    VOLUME  479889.167 3743036.833 440.72
LOCATION L0003362    VOLUME  479889.222 3743040.490 440.74
LOCATION L0003363    VOLUME  479889.278 3743044.147 440.76
LOCATION L0003364    VOLUME  479889.334 3743047.804 440.78
LOCATION L0003365    VOLUME  479889.390 3743051.461 440.80
LOCATION L0003366    VOLUME  479889.446 3743055.118 440.82
LOCATION L0003367    VOLUME  479889.502 3743058.776 440.84
LOCATION L0003368    VOLUME  479889.557 3743062.433 440.86
LOCATION L0003369    VOLUME  479889.613 3743066.090 440.88
LOCATION L0003370    VOLUME  479889.669 3743069.747 440.89
LOCATION L0003371    VOLUME  479889.725 3743073.404 440.91
LOCATION L0003372    VOLUME  479889.781 3743077.061 440.92
LOCATION L0003373    VOLUME  479889.837 3743080.719 440.94
LOCATION L0003374    VOLUME  479889.892 3743084.376 440.95
LOCATION L0003375    VOLUME  479889.948 3743088.033 440.97
LOCATION L0003376    VOLUME  479890.004 3743091.690 440.98
LOCATION L0003377    VOLUME  479890.060 3743095.347 441.00
LOCATION L0003378    VOLUME  479890.116 3743099.004 441.00
LOCATION L0003379    VOLUME  479890.172 3743102.662 441.00
LOCATION L0003380    VOLUME  479890.228 3743106.319 441.00
LOCATION L0003381    VOLUME  479890.283 3743109.976 441.00
LOCATION L0003382    VOLUME  479890.339 3743113.633 440.99
LOCATION L0003383    VOLUME  479890.395 3743117.290 440.99
LOCATION L0003384    VOLUME  479890.451 3743120.948 440.99
LOCATION L0003385    VOLUME  479890.507 3743124.605 440.99
LOCATION L0003386    VOLUME  479890.563 3743128.262 440.99
LOCATION L0003387    VOLUME  479890.618 3743131.919 440.98
LOCATION L0003388    VOLUME  479890.674 3743135.576 440.97
LOCATION L0003389    VOLUME  479890.730 3743139.233 440.97
LOCATION L0003390    VOLUME  479890.786 3743142.891 440.96
LOCATION L0003391    VOLUME  479890.842 3743146.548 440.95
LOCATION L0003392    VOLUME  479890.898 3743150.205 440.95
LOCATION L0003393    VOLUME  479890.953 3743153.862 440.94
LOCATION L0003394    VOLUME  479891.009 3743157.519 440.93
LOCATION L0003395    VOLUME  479891.065 3743161.176 440.93
LOCATION L0003396    VOLUME  479891.121 3743164.834 440.92

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LOCATION	L0003397	VOLUME	479891.177	3743168.491	440.91
LOCATION	L0003398	VOLUME	479891.233	3743172.148	440.90
LOCATION	L0003399	VOLUME	479891.289	3743175.805	440.89
LOCATION	L0003400	VOLUME	479891.344	3743179.462	440.88
LOCATION	L0003401	VOLUME	479891.400	3743183.119	440.87
LOCATION	L0003402	VOLUME	479891.456	3743186.777	440.86
LOCATION	L0003403	VOLUME	479891.512	3743190.434	440.85
LOCATION	L0003404	VOLUME	479891.568	3743194.091	440.84
LOCATION	L0003405	VOLUME	479891.624	3743197.748	440.84
LOCATION	L0003406	VOLUME	479891.679	3743201.405	440.83
LOCATION	L0003407	VOLUME	479891.735	3743205.063	440.82
LOCATION	L0003408	VOLUME	479891.791	3743208.720	440.82
LOCATION	L0003409	VOLUME	479891.847	3743212.377	440.81
LOCATION	L0003410	VOLUME	479891.903	3743216.034	440.81
LOCATION	L0003411	VOLUME	479891.959	3743219.691	440.80
LOCATION	L0003412	VOLUME	479892.014	3743223.348	440.79
LOCATION	L0003413	VOLUME	479892.070	3743227.006	440.79
LOCATION	L0003414	VOLUME	479892.126	3743230.663	440.78
LOCATION	L0003415	VOLUME	479892.182	3743234.320	440.77
LOCATION	L0003416	VOLUME	479892.238	3743237.977	440.77
LOCATION	L0003417	VOLUME	479892.294	3743241.634	440.76
LOCATION	L0003418	VOLUME	479892.349	3743245.291	440.76
LOCATION	L0003419	VOLUME	479892.405	3743248.949	440.75
LOCATION	L0003420	VOLUME	479892.461	3743252.606	440.74
LOCATION	L0003421	VOLUME	479892.517	3743256.263	440.73
LOCATION	L0003422	VOLUME	479892.573	3743259.920	440.72
LOCATION	L0003423	VOLUME	479892.629	3743263.577	440.70
LOCATION	L0003424	VOLUME	479892.685	3743267.234	440.69
LOCATION	L0003425	VOLUME	479892.740	3743270.892	440.68
LOCATION	L0003426	VOLUME	479892.796	3743274.549	440.67
LOCATION	L0003427	VOLUME	479892.852	3743278.206	440.66
LOCATION	L0003428	VOLUME	479892.908	3743281.863	440.64
LOCATION	L0003429	VOLUME	479892.964	3743285.520	440.63
LOCATION	L0003430	VOLUME	479893.020	3743289.178	440.62
LOCATION	L0003431	VOLUME	479893.075	3743292.835	440.61
LOCATION	L0003432	VOLUME	479893.131	3743296.492	440.60
LOCATION	L0003433	VOLUME	479893.187	3743300.149	440.59
LOCATION	L0003434	VOLUME	479893.243	3743303.806	440.57
LOCATION	L0003435	VOLUME	479893.299	3743307.463	440.56
LOCATION	L0003436	VOLUME	479893.355	3743311.121	440.55
LOCATION	L0003437	VOLUME	479893.410	3743314.778	440.54
LOCATION	L0003438	VOLUME	479893.466	3743318.435	440.52
LOCATION	L0003439	VOLUME	479893.522	3743322.092	440.50
LOCATION	L0003440	VOLUME	479893.578	3743325.749	440.49
LOCATION	L0003441	VOLUME	479893.634	3743329.406	440.47
LOCATION	L0003442	VOLUME	479893.690	3743333.064	440.45
LOCATION	L0003443	VOLUME	479893.746	3743336.721	440.44
LOCATION	L0003444	VOLUME	479893.801	3743340.378	440.42
LOCATION	L0003445	VOLUME	479894.393	3743343.954	440.40
LOCATION	L0003446	VOLUME	479895.418	3743347.466	440.37
LOCATION	L0003447	VOLUME	479896.442	3743350.977	440.34

LOCATION	L0003448	VOLUME	479897.466	3743354.488	440.31
LOCATION	L0003449	VOLUME	479898.385	3743358.016	440.28
LOCATION	L0003450	VOLUME	479898.514	3743361.672	440.25
LOCATION	L0003451	VOLUME	479898.642	3743365.327	440.22
LOCATION	L0003452	VOLUME	479898.771	3743368.982	440.19
LOCATION	L0003453	VOLUME	479898.900	3743372.638	440.16
LOCATION	L0003454	VOLUME	479899.029	3743376.293	440.12
LOCATION	L0003455	VOLUME	479899.157	3743379.948	440.09
LOCATION	L0003456	VOLUME	479899.286	3743383.604	440.05
LOCATION	L0003457	VOLUME	479899.415	3743387.259	440.01
LOCATION	L0003458	VOLUME	479899.543	3743390.914	439.97
LOCATION	L0003459	VOLUME	479899.672	3743394.570	439.94
LOCATION	L0003460	VOLUME	479899.801	3743398.225	439.90
LOCATION	L0003461	VOLUME	479899.929	3743401.880	439.86
LOCATION	L0003462	VOLUME	479900.058	3743405.536	439.83
LOCATION	L0003463	VOLUME	479900.187	3743409.191	439.82
LOCATION	L0003464	VOLUME	479900.315	3743412.846	439.82
LOCATION	L0003465	VOLUME	479900.444	3743416.502	439.81
LOCATION	L0003466	VOLUME	479900.573	3743420.157	439.81
LOCATION	L0003467	VOLUME	479900.702	3743423.812	439.80
LOCATION	L0003468	VOLUME	479900.830	3743427.468	439.80
LOCATION	L0003469	VOLUME	479900.959	3743431.123	439.79
LOCATION	L0003470	VOLUME	479901.088	3743434.778	439.79
LOCATION	L0003471	VOLUME	479901.216	3743438.434	439.80
LOCATION	L0003472	VOLUME	479901.345	3743442.089	439.82
LOCATION	L0003473	VOLUME	479901.474	3743445.744	439.84
LOCATION	L0003474	VOLUME	479901.602	3743449.400	439.86
LOCATION	L0003475	VOLUME	479901.731	3743453.055	439.88
LOCATION	L0003476	VOLUME	479901.860	3743456.710	439.90
LOCATION	L0003477	VOLUME	479901.988	3743460.366	439.92
LOCATION	L0003478	VOLUME	479902.117	3743464.021	439.94
LOCATION	L0003479	VOLUME	479902.246	3743467.676	439.95
LOCATION	L0003480	VOLUME	479902.374	3743471.332	439.93
LOCATION	L0003481	VOLUME	479902.503	3743474.987	439.92
LOCATION	L0003482	VOLUME	479902.632	3743478.642	439.91
LOCATION	L0003483	VOLUME	479902.761	3743482.298	439.89
LOCATION	L0003484	VOLUME	479902.889	3743485.953	439.88
LOCATION	L0003485	VOLUME	479903.018	3743489.608	439.87
LOCATION	L0003486	VOLUME	479903.147	3743493.264	439.86
LOCATION	L0003487	VOLUME	479903.275	3743496.919	439.84
LOCATION	L0003488	VOLUME	479903.404	3743500.574	439.83
LOCATION	L0003489	VOLUME	479903.533	3743504.230	439.82
LOCATION	L0003490	VOLUME	479903.661	3743507.885	439.82
LOCATION	L0003491	VOLUME	479903.790	3743511.540	439.81
LOCATION	L0003492	VOLUME	479903.919	3743515.196	439.80
LOCATION	L0003493	VOLUME	479904.047	3743518.851	439.79
LOCATION	L0003494	VOLUME	479904.176	3743522.506	439.78
LOCATION	L0003495	VOLUME	479904.305	3743526.162	439.77
LOCATION	L0003496	VOLUME	479904.434	3743529.817	439.77
LOCATION	L0003497	VOLUME	479904.562	3743533.472	439.76
LOCATION	L0003498	VOLUME	479904.691	3743537.128	439.75

LOCATION	L0003499	VOLUME	479904.820	3743540.783	439.75
LOCATION	L0003500	VOLUME	479904.948	3743544.438	439.74
LOCATION	L0003501	VOLUME	479905.077	3743548.094	439.74
LOCATION	L0003502	VOLUME	479905.206	3743551.749	439.73
LOCATION	L0003503	VOLUME	479905.334	3743555.404	439.73
LOCATION	L0003504	VOLUME	479905.463	3743559.060	439.72
LOCATION	L0003505	VOLUME	479905.592	3743562.715	439.72
LOCATION	L0003506	VOLUME	479905.720	3743566.371	439.71
LOCATION	L0003507	VOLUME	479905.849	3743570.026	439.71
LOCATION	L0003508	VOLUME	479905.978	3743573.681	439.71
**	End of LINE VOLUME Source ID = SLINE3				
LOCATION	STCK1	POINT	480051.620	3742829.628	439.470
**	DESCRSRC	Idle 1			
LOCATION	STCK2	POINT	480051.137	3742865.179	439.480
**	DESCRSRC	Idle 2			
LOCATION	STCK3	POINT	480050.469	3742899.287	439.530
**	DESCRSRC	Idle 3			
LOCATION	STCK4	POINT	480047.897	3742937.803	439.640
**	DESCRSRC	Idle 4			
**	Source Parameters **				
**	LINE VOLUME Source ID = SLINE1				
SRCPARAM	L0003133	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003134	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003135	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003136	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003137	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003138	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003139	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003140	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003141	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003142	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003143	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003144	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003145	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003146	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003147	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003148	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003149	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003150	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003151	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003152	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003153	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003154	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003155	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003156	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003157	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003158	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003159	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003160	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003161	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003162	0.00000003873	0.00	1.70	6.52

SRCPARAM	L0003265	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003266	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003267	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003268	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003269	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003270	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003271	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003272	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003273	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003274	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003275	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003276	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003277	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003278	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003279	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003280	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003281	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003282	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003283	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003284	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003285	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003286	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003287	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003288	0.00000003873	0.00	1.70	6.52
SRCPARAM	L0003289	0.00000003873	0.00	1.70	6.52

**

** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0003290	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003291	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003292	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003293	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003294	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003295	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003296	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003297	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003298	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003299	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003300	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003301	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003302	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003303	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003304	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003305	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003306	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003307	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003308	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003309	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003310	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003311	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003312	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003313	0.00000001345	0.00	1.70	0.85

SRCPARAM	L0003314	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003315	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003316	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003317	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003318	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003319	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003320	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003321	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003322	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003323	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003324	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003325	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003326	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003327	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003328	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003329	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003330	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003331	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003332	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003333	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003334	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003335	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003336	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003337	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003338	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003339	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003340	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003341	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003342	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003343	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003344	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003345	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003346	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003347	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003348	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003349	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003350	0.00000001345	0.00	1.70	0.85
SRCPARAM	L0003351	0.00000001345	0.00	1.70	0.85

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 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0003352	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003353	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003354	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003355	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003356	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003357	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003358	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003359	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003360	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003361	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003362	0.00000002701	0.00	1.70	0.85

SRCPARAM	L0003465	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003466	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003467	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003468	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003469	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003470	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003471	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003472	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003473	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003474	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003475	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003476	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003477	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003478	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003479	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003480	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003481	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003482	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003483	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003484	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003485	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003486	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003487	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003488	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003489	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003490	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003491	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003492	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003493	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003494	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003495	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003496	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003497	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003498	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003499	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003500	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003501	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003502	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003503	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003504	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003505	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003506	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003507	0.00000002701	0.00	1.70	0.85
SRCPARAM	L0003508	0.00000002701	0.00	1.70	0.85

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SRCPARAM	STCK1	0.0000128	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000128	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000128	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000128	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDWID	STCK4	148.55	180.50	206.97	227.14	240.42	246.39
BUILDWID	STCK4	244.87	235.92	221.96	235.70	244.94	246.74
BUILDWID	STCK4	241.04	228.02	208.07	181.79	149.99	115.94
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK1	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK1	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK1	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK2	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK2	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK2	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK3	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK3	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK3	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
BUILDLN	STCK4	235.70	244.94	246.74	241.04	228.02	208.07
BUILDLN	STCK4	181.79	149.99	115.94	148.55	180.50	206.97
BUILDLN	STCK4	227.14	240.42	246.39	244.87	235.92	221.96
XBADJ	STCK1	-72.00	-89.35	-103.99	-115.47	-123.44	-127.66
XBADJ	STCK1	-128.00	-124.45	-119.42	-142.59	-165.09	-182.58
XBADJ	STCK1	-194.52	-200.55	-200.48	-194.33	-182.27	-166.84
XBADJ	STCK1	-163.70	-155.59	-142.75	-125.57	-104.58	-80.41
XBADJ	STCK1	-53.79	-25.54	3.48	-5.97	-15.41	-24.39
XBADJ	STCK1	-32.63	-39.87	-45.91	-50.54	-53.65	-55.12
XBADJ	STCK2	-106.93	-122.60	-134.54	-142.39	-145.92	-145.02
XBADJ	STCK2	-139.71	-130.15	-118.94	-135.94	-152.48	-164.39
XBADJ	STCK2	-171.30	-173.01	-169.46	-160.76	-147.17	-131.29
XBADJ	STCK2	-128.77	-122.35	-112.20	-98.65	-82.09	-63.05
XBADJ	STCK2	-42.08	-19.84	3.00	-12.61	-28.02	-42.58
XBADJ	STCK2	-55.85	-67.41	-76.93	-84.11	-88.74	-90.67
XBADJ	STCK3	-140.40	-154.42	-163.74	-168.09	-167.34	-161.49
XBADJ	STCK3	-150.74	-135.41	-118.27	-129.36	-140.18	-146.75
XBADJ	STCK3	-148.86	-146.45	-139.58	-128.48	-113.47	-97.18
XBADJ	STCK3	-95.30	-90.52	-83.00	-72.95	-60.68	-46.57

XBADJ	STCK3	-31.05	-14.58	2.33	-19.20	-40.32	-60.22
XBADJ	STCK3	-78.28	-93.97	-106.81	-116.40	-122.45	-124.78
XBADJ	STCK4	-177.88	-189.73	-195.81	-195.94	-190.12	-178.52
XBADJ	STCK4	-161.50	-139.57	-115.70	-120.14	-124.60	-125.27
XBADJ	STCK4	-122.14	-115.29	-104.95	-91.41	-75.10	-58.67
XBADJ	STCK4	-57.82	-55.21	-50.93	-45.10	-37.90	-29.54
XBADJ	STCK4	-20.29	-10.42	-0.24	-28.41	-55.90	-81.70
XBADJ	STCK4	-105.01	-125.13	-141.44	-153.46	-160.82	-163.29
YBADJ	STCK1	68.31	74.84	79.09	80.95	80.34	77.29
YBADJ	STCK1	71.89	64.31	55.86	45.85	33.12	19.38
YBADJ	STCK1	5.05	-9.43	-23.63	-37.10	-49.45	-61.45
YBADJ	STCK1	-68.31	-74.84	-79.09	-80.95	-80.34	-77.29
YBADJ	STCK1	-71.89	-64.31	-55.86	-45.85	-33.12	-19.38
YBADJ	STCK1	-5.05	9.43	23.63	37.10	49.45	61.45
YBADJ	STCK2	61.66	62.23	60.90	57.73	52.80	46.26
YBADJ	STCK2	38.32	29.22	20.31	10.92	-0.12	-11.17
YBADJ	STCK2	-21.87	-31.91	-40.99	-48.81	-55.15	-60.97
YBADJ	STCK2	-61.66	-62.23	-60.90	-57.73	-52.80	-46.26
YBADJ	STCK2	-38.32	-29.22	-20.31	-10.92	0.12	11.17
YBADJ	STCK2	21.87	31.91	40.99	48.81	55.15	60.97
YBADJ	STCK3	55.08	49.93	43.27	35.29	26.24	16.39
YBADJ	STCK3	6.04	-4.49	-13.80	-22.55	-31.95	-40.37
YBADJ	STCK3	-47.57	-53.33	-57.46	-59.85	-60.42	-60.30
YBADJ	STCK3	-55.08	-49.93	-43.27	-35.29	-26.24	-16.39
YBADJ	STCK3	-6.04	4.49	13.80	22.55	31.95	40.37
YBADJ	STCK3	47.57	53.33	57.46	59.85	60.42	60.30
YBADJ	STCK4	45.86	34.35	21.79	8.57	-4.92	-18.25
YBADJ	STCK4	-31.03	-42.86	-52.31	-60.03	-67.26	-72.44
YBADJ	STCK4	-75.42	-76.11	-74.49	-70.60	-64.57	-57.73
YBADJ	STCK4	-45.86	-34.35	-21.79	-8.57	4.92	18.25
YBADJ	STCK4	31.03	42.86	52.31	60.03	67.26	72.44
YBADJ	STCK4	75.42	76.11	74.49	70.60	64.57	57.73

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19371 Redlands Avenue East 2040-53.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"

PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"

SURFDATA 3171 2010

UAIRDATA 3190 2010

SITEDATA 99999 2010

PROFBASE 442.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19371 REDLANDS AVENUE EAST 2040-53.AD\PE00GALL.PLT" 31

SUMMFILE "19371 Redlands Avenue East 2040-53.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)
A Total of 6 Warning Message(s)
A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

SO W320	861	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	862	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	863	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	864	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1032	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	1032	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/18/21
*** AERMET - VERSION 16216 *** *** DPM Concentrations - 2040-2053 *** 07:36:22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 380 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 380 Source(s); 1 Source Group(s); and 450 Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 376 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.2 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: 19371 Redlands Avenue East 2040-53.err
**File for Summary of Results: 19371 Redlands Avenue East 2040-53.sum

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.12800E-04	480051.6	3742829.6	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.12800E-04	480051.1	3742865.2	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.12800E-04	480050.5	3742899.3	439.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.12800E-04	480047.9	3742937.8	439.6	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003133	0	0.38730E-07	479894.1	3742773.0	440.3	0.00	1.70	6.52	YES	
L0003134	0	0.38730E-07	479897.7	3742772.6	440.2	0.00	1.70	6.52	YES	
L0003135	0	0.38730E-07	479901.3	3742772.3	440.2	0.00	1.70	6.52	YES	
L0003136	0	0.38730E-07	479905.0	3742771.9	440.2	0.00	1.70	6.52	YES	
L0003137	0	0.38730E-07	479908.6	3742771.6	440.1	0.00	1.70	6.52	YES	
L0003138	0	0.38730E-07	479912.3	3742771.2	440.1	0.00	1.70	6.52	YES	
L0003139	0	0.38730E-07	479915.9	3742770.9	440.1	0.00	1.70	6.52	YES	
L0003140	0	0.38730E-07	479919.5	3742770.3	440.1	0.00	1.70	6.52	YES	
L0003141	0	0.38730E-07	479923.0	3742769.1	440.1	0.00	1.70	6.52	YES	
L0003142	0	0.38730E-07	479926.4	3742767.9	440.0	0.00	1.70	6.52	YES	
L0003143	0	0.38730E-07	479929.9	3742766.7	440.0	0.00	1.70	6.52	YES	
L0003144	0	0.38730E-07	479933.5	3742766.5	440.0	0.00	1.70	6.52	YES	
L0003145	0	0.38730E-07	479937.1	3742766.6	440.0	0.00	1.70	6.52	YES	
L0003146	0	0.38730E-07	479940.8	3742766.6	440.0	0.00	1.70	6.52	YES	
L0003147	0	0.38730E-07	479944.5	3742766.6	439.9	0.00	1.70	6.52	YES	
L0003148	0	0.38730E-07	479948.1	3742766.7	439.9	0.00	1.70	6.52	YES	
L0003149	0	0.38730E-07	479951.8	3742766.7	439.9	0.00	1.70	6.52	YES	
L0003150	0	0.38730E-07	479955.4	3742766.7	439.9	0.00	1.70	6.52	YES	
L0003151	0	0.38730E-07	479959.1	3742766.8	439.9	0.00	1.70	6.52	YES	
L0003152	0	0.38730E-07	479962.7	3742766.8	439.9	0.00	1.70	6.52	YES	
L0003153	0	0.38730E-07	479966.4	3742766.8	439.9	0.00	1.70	6.52	YES	
L0003154	0	0.38730E-07	479970.1	3742766.9	439.9	0.00	1.70	6.52	YES	
L0003155	0	0.38730E-07	479973.7	3742766.9	439.9	0.00	1.70	6.52	YES	
L0003156	0	0.38730E-07	479977.4	3742766.9	439.9	0.00	1.70	6.52	YES	
L0003157	0	0.38730E-07	479981.0	3742767.0	439.9	0.00	1.70	6.52	YES	
L0003158	0	0.38730E-07	479984.7	3742767.0	439.9	0.00	1.70	6.52	YES	
L0003159	0	0.38730E-07	479988.3	3742767.0	439.8	0.00	1.70	6.52	YES	
L0003160	0	0.38730E-07	479992.0	3742767.1	439.8	0.00	1.70	6.52	YES	
L0003161	0	0.38730E-07	479995.7	3742767.1	439.8	0.00	1.70	6.52	YES	
L0003162	0	0.38730E-07	479999.3	3742767.1	439.8	0.00	1.70	6.52	YES	
L0003163	0	0.38730E-07	480003.0	3742767.2	439.8	0.00	1.70	6.52	YES	
L0003164	0	0.38730E-07	480006.6	3742767.2	439.8	0.00	1.70	6.52	YES	
L0003165	0	0.38730E-07	480010.3	3742767.2	439.8	0.00	1.70	6.52	YES	
L0003166	0	0.38730E-07	480014.0	3742767.3	439.7	0.00	1.70	6.52	YES	
L0003167	0	0.38730E-07	480017.6	3742767.3	439.7	0.00	1.70	6.52	YES	
L0003168	0	0.38730E-07	480021.3	3742767.3	439.7	0.00	1.70	6.52	YES	
L0003169	0	0.38730E-07	480024.9	3742767.4	439.7	0.00	1.70	6.52	YES	
L0003170	0	0.38730E-07	480028.6	3742767.4	439.7	0.00	1.70	6.52	YES	
L0003171	0	0.38730E-07	480032.2	3742767.5	439.7	0.00	1.70	6.52	YES	
L0003172	0	0.38730E-07	480035.9	3742767.5	439.7	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003173	0	0.38730E-07	480039.6	3742767.5	439.6	0.00	1.70	6.52	YES	
L0003174	0	0.38730E-07	480043.2	3742767.6	439.6	0.00	1.70	6.52	YES	
L0003175	0	0.38730E-07	480046.9	3742767.6	439.6	0.00	1.70	6.52	YES	
L0003176	0	0.38730E-07	480050.5	3742767.6	439.6	0.00	1.70	6.52	YES	
L0003177	0	0.38730E-07	480054.2	3742767.7	439.6	0.00	1.70	6.52	YES	
L0003178	0	0.38730E-07	480057.8	3742767.7	439.6	0.00	1.70	6.52	YES	
L0003179	0	0.38730E-07	480061.2	3742768.0	439.5	0.00	1.70	6.52	YES	
L0003180	0	0.38730E-07	480061.3	3742771.6	439.5	0.00	1.70	6.52	YES	
L0003181	0	0.38730E-07	480061.3	3742775.3	439.5	0.00	1.70	6.52	YES	
L0003182	0	0.38730E-07	480061.3	3742779.0	439.5	0.00	1.70	6.52	YES	
L0003183	0	0.38730E-07	480061.3	3742782.6	439.5	0.00	1.70	6.52	YES	
L0003184	0	0.38730E-07	480061.3	3742786.3	439.5	0.00	1.70	6.52	YES	
L0003185	0	0.38730E-07	480061.4	3742789.9	439.5	0.00	1.70	6.52	YES	
L0003186	0	0.38730E-07	480061.4	3742793.6	439.5	0.00	1.70	6.52	YES	
L0003187	0	0.38730E-07	480061.4	3742797.2	439.5	0.00	1.70	6.52	YES	
L0003188	0	0.38730E-07	480061.4	3742800.9	439.5	0.00	1.70	6.52	YES	
L0003189	0	0.38730E-07	480061.5	3742804.6	439.5	0.00	1.70	6.52	YES	
L0003190	0	0.38730E-07	480061.5	3742808.2	439.4	0.00	1.70	6.52	YES	
L0003191	0	0.38730E-07	480061.5	3742811.9	439.4	0.00	1.70	6.52	YES	
L0003192	0	0.38730E-07	480061.5	3742815.5	439.4	0.00	1.70	6.52	YES	
L0003193	0	0.38730E-07	480061.6	3742819.2	439.4	0.00	1.70	6.52	YES	
L0003194	0	0.38730E-07	480061.6	3742822.8	439.4	0.00	1.70	6.52	YES	
L0003195	0	0.38730E-07	480061.6	3742826.5	439.4	0.00	1.70	6.52	YES	
L0003196	0	0.38730E-07	480061.6	3742830.2	439.4	0.00	1.70	6.52	YES	
L0003197	0	0.38730E-07	480061.6	3742833.8	439.4	0.00	1.70	6.52	YES	
L0003198	0	0.38730E-07	480061.7	3742837.5	439.4	0.00	1.70	6.52	YES	
L0003199	0	0.38730E-07	480061.7	3742841.1	439.4	0.00	1.70	6.52	YES	
L0003200	0	0.38730E-07	480061.7	3742844.8	439.4	0.00	1.70	6.52	YES	
L0003201	0	0.38730E-07	480061.7	3742848.4	439.4	0.00	1.70	6.52	YES	
L0003202	0	0.38730E-07	480061.8	3742852.1	439.4	0.00	1.70	6.52	YES	
L0003203	0	0.38730E-07	480061.8	3742855.8	439.4	0.00	1.70	6.52	YES	
L0003204	0	0.38730E-07	480061.8	3742859.4	439.4	0.00	1.70	6.52	YES	
L0003205	0	0.38730E-07	480061.8	3742863.1	439.4	0.00	1.70	6.52	YES	
L0003206	0	0.38730E-07	480061.8	3742866.7	439.4	0.00	1.70	6.52	YES	
L0003207	0	0.38730E-07	480061.9	3742870.4	439.4	0.00	1.70	6.52	YES	
L0003208	0	0.38730E-07	480061.9	3742874.1	439.4	0.00	1.70	6.52	YES	
L0003209	0	0.38730E-07	480061.9	3742877.7	439.4	0.00	1.70	6.52	YES	
L0003210	0	0.38730E-07	480061.9	3742881.4	439.4	0.00	1.70	6.52	YES	
L0003211	0	0.38730E-07	480062.0	3742885.0	439.4	0.00	1.70	6.52	YES	
L0003212	0	0.38730E-07	480062.0	3742888.7	439.5	0.00	1.70	6.52	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial

*** 08/18/21

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003213	0	0.38730E-07	480062.0	3742892.3	439.5	0.00	1.70	6.52	YES	
L0003214	0	0.38730E-07	480062.0	3742896.0	439.5	0.00	1.70	6.52	YES	
L0003215	0	0.38730E-07	480062.1	3742899.7	439.5	0.00	1.70	6.52	YES	
L0003216	0	0.38730E-07	480062.1	3742903.3	439.5	0.00	1.70	6.52	YES	
L0003217	0	0.38730E-07	480062.1	3742907.0	439.5	0.00	1.70	6.52	YES	
L0003218	0	0.38730E-07	480062.1	3742910.6	439.5	0.00	1.70	6.52	YES	
L0003219	0	0.38730E-07	480062.1	3742914.3	439.5	0.00	1.70	6.52	YES	
L0003220	0	0.38730E-07	480062.2	3742917.9	439.5	0.00	1.70	6.52	YES	
L0003221	0	0.38730E-07	480062.2	3742921.6	439.5	0.00	1.70	6.52	YES	
L0003222	0	0.38730E-07	480062.2	3742925.3	439.5	0.00	1.70	6.52	YES	
L0003223	0	0.38730E-07	480062.2	3742928.9	439.5	0.00	1.70	6.52	YES	
L0003224	0	0.38730E-07	480062.3	3742932.6	439.6	0.00	1.70	6.52	YES	
L0003225	0	0.38730E-07	480062.3	3742936.2	439.6	0.00	1.70	6.52	YES	
L0003226	0	0.38730E-07	480062.3	3742939.9	439.6	0.00	1.70	6.52	YES	
L0003227	0	0.38730E-07	480062.3	3742943.5	439.6	0.00	1.70	6.52	YES	
L0003228	0	0.38730E-07	480062.3	3742947.2	439.6	0.00	1.70	6.52	YES	
L0003229	0	0.38730E-07	480062.4	3742950.9	439.6	0.00	1.70	6.52	YES	
L0003230	0	0.38730E-07	480062.4	3742954.5	439.6	0.00	1.70	6.52	YES	
L0003231	0	0.38730E-07	480062.4	3742958.2	439.6	0.00	1.70	6.52	YES	
L0003232	0	0.38730E-07	480062.4	3742961.8	439.6	0.00	1.70	6.52	YES	
L0003233	0	0.38730E-07	480062.5	3742965.5	439.6	0.00	1.70	6.52	YES	
L0003234	0	0.38730E-07	480062.5	3742969.1	439.6	0.00	1.70	6.52	YES	
L0003235	0	0.38730E-07	480062.5	3742972.8	439.7	0.00	1.70	6.52	YES	
L0003236	0	0.38730E-07	480062.5	3742976.5	439.7	0.00	1.70	6.52	YES	
L0003237	0	0.38730E-07	480062.6	3742980.1	439.7	0.00	1.70	6.52	YES	
L0003238	0	0.38730E-07	480062.6	3742983.8	439.7	0.00	1.70	6.52	YES	
L0003239	0	0.38730E-07	480062.6	3742987.4	439.7	0.00	1.70	6.52	YES	
L0003240	0	0.38730E-07	480062.6	3742991.1	439.7	0.00	1.70	6.52	YES	
L0003241	0	0.38730E-07	480062.6	3742994.8	439.7	0.00	1.70	6.52	YES	
L0003242	0	0.38730E-07	480062.7	3742998.4	439.7	0.00	1.70	6.52	YES	
L0003243	0	0.38730E-07	480062.7	3743002.1	439.7	0.00	1.70	6.52	YES	
L0003244	0	0.38730E-07	480061.7	3743004.8	439.8	0.00	1.70	6.52	YES	
L0003245	0	0.38730E-07	480058.1	3743004.8	439.8	0.00	1.70	6.52	YES	
L0003246	0	0.38730E-07	480054.4	3743004.8	439.8	0.00	1.70	6.52	YES	
L0003247	0	0.38730E-07	480050.8	3743004.8	439.8	0.00	1.70	6.52	YES	
L0003248	0	0.38730E-07	480047.1	3743004.7	439.8	0.00	1.70	6.52	YES	
L0003249	0	0.38730E-07	480043.4	3743004.7	439.8	0.00	1.70	6.52	YES	
L0003250	0	0.38730E-07	480039.8	3743004.7	439.8	0.00	1.70	6.52	YES	
L0003251	0	0.38730E-07	480036.1	3743004.7	439.8	0.00	1.70	6.52	YES	

L0003252 0 0.38730E-07 480032.5 3743004.7 439.9 0.00 1.70 6.52 YES

*** AERMOD - VERSION 21112 *** ** 19371 Redlands Ave East Industrial
*** AERMET - VERSION 16216 *** ** DPM Concentrations - 2040-2053

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003253	0	0.38730E-07	480028.8	3743004.7	439.9	0.00	1.70	6.52	YES	
L0003254	0	0.38730E-07	480025.2	3743004.7	439.9	0.00	1.70	6.52	YES	
L0003255	0	0.38730E-07	480021.5	3743004.7	439.9	0.00	1.70	6.52	YES	
L0003256	0	0.38730E-07	480017.8	3743004.7	439.9	0.00	1.70	6.52	YES	
L0003257	0	0.38730E-07	480014.2	3743004.7	439.9	0.00	1.70	6.52	YES	
L0003258	0	0.38730E-07	480010.5	3743004.7	439.9	0.00	1.70	6.52	YES	
L0003259	0	0.38730E-07	480006.9	3743004.7	439.9	0.00	1.70	6.52	YES	
L0003260	0	0.38730E-07	480003.2	3743004.6	440.0	0.00	1.70	6.52	YES	
L0003261	0	0.38730E-07	479999.6	3743004.6	440.0	0.00	1.70	6.52	YES	
L0003262	0	0.38730E-07	479995.9	3743004.6	440.0	0.00	1.70	6.52	YES	
L0003263	0	0.38730E-07	479992.2	3743004.6	440.0	0.00	1.70	6.52	YES	
L0003264	0	0.38730E-07	479988.6	3743004.6	440.0	0.00	1.70	6.52	YES	
L0003265	0	0.38730E-07	479984.9	3743004.6	440.0	0.00	1.70	6.52	YES	
L0003266	0	0.38730E-07	479981.3	3743004.6	440.1	0.00	1.70	6.52	YES	
L0003267	0	0.38730E-07	479977.6	3743004.6	440.1	0.00	1.70	6.52	YES	
L0003268	0	0.38730E-07	479974.0	3743004.6	440.1	0.00	1.70	6.52	YES	
L0003269	0	0.38730E-07	479970.3	3743004.6	440.1	0.00	1.70	6.52	YES	
L0003270	0	0.38730E-07	479966.6	3743004.6	440.1	0.00	1.70	6.52	YES	
L0003271	0	0.38730E-07	479963.0	3743004.5	440.1	0.00	1.70	6.52	YES	
L0003272	0	0.38730E-07	479959.3	3743004.5	440.1	0.00	1.70	6.52	YES	
L0003273	0	0.38730E-07	479955.7	3743004.5	440.1	0.00	1.70	6.52	YES	
L0003274	0	0.38730E-07	479952.0	3743004.5	440.1	0.00	1.70	6.52	YES	
L0003275	0	0.38730E-07	479948.3	3743004.5	440.2	0.00	1.70	6.52	YES	
L0003276	0	0.38730E-07	479944.7	3743004.5	440.2	0.00	1.70	6.52	YES	
L0003277	0	0.38730E-07	479941.0	3743004.5	440.2	0.00	1.70	6.52	YES	
L0003278	0	0.38730E-07	479937.4	3743004.5	440.2	0.00	1.70	6.52	YES	
L0003279	0	0.38730E-07	479933.8	3743004.1	440.2	0.00	1.70	6.52	YES	
L0003280	0	0.38730E-07	479930.3	3743002.9	440.2	0.00	1.70	6.52	YES	
L0003281	0	0.38730E-07	479926.9	3743001.7	440.2	0.00	1.70	6.52	YES	
L0003282	0	0.38730E-07	479923.4	3743000.5	440.2	0.00	1.70	6.52	YES	
L0003283	0	0.38730E-07	479920.0	3742999.3	440.3	0.00	1.70	6.52	YES	
L0003284	0	0.38730E-07	479916.4	3742998.5	440.3	0.00	1.70	6.52	YES	
L0003285	0	0.38730E-07	479912.8	3742998.5	440.3	0.00	1.70	6.52	YES	
L0003286	0	0.38730E-07	479909.1	3742998.4	440.4	0.00	1.70	6.52	YES	
L0003287	0	0.38730E-07	479905.5	3742998.4	440.4	0.00	1.70	6.52	YES	
L0003288	0	0.38730E-07	479901.8	3742998.4	440.4	0.00	1.70	6.52	YES	

L0003289	0	0.38730E-07	479898.1	3742998.3	440.5	0.00	1.70	6.52	YES
L0003290	0	0.13450E-07	479887.3	3742774.4	440.4	0.00	1.70	0.85	YES
L0003291	0	0.13450E-07	479887.3	3742778.1	440.4	0.00	1.70	0.85	YES
L0003292	0	0.13450E-07	479887.3	3742781.8	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2040-2053

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003293	0	0.13450E-07	479887.3	3742785.4	440.4	0.00	1.70	0.85	YES	
L0003294	0	0.13450E-07	479887.4	3742789.1	440.4	0.00	1.70	0.85	YES	
L0003295	0	0.13450E-07	479887.4	3742792.7	440.4	0.00	1.70	0.85	YES	
L0003296	0	0.13450E-07	479887.4	3742796.4	440.4	0.00	1.70	0.85	YES	
L0003297	0	0.13450E-07	479887.4	3742800.0	440.4	0.00	1.70	0.85	YES	
L0003298	0	0.13450E-07	479887.5	3742803.7	440.4	0.00	1.70	0.85	YES	
L0003299	0	0.13450E-07	479887.5	3742807.4	440.4	0.00	1.70	0.85	YES	
L0003300	0	0.13450E-07	479887.5	3742811.0	440.5	0.00	1.70	0.85	YES	
L0003301	0	0.13450E-07	479887.5	3742814.7	440.5	0.00	1.70	0.85	YES	
L0003302	0	0.13450E-07	479887.5	3742818.3	440.5	0.00	1.70	0.85	YES	
L0003303	0	0.13450E-07	479887.6	3742822.0	440.5	0.00	1.70	0.85	YES	
L0003304	0	0.13450E-07	479887.6	3742825.6	440.5	0.00	1.70	0.85	YES	
L0003305	0	0.13450E-07	479887.6	3742829.3	440.5	0.00	1.70	0.85	YES	
L0003306	0	0.13450E-07	479887.6	3742833.0	440.5	0.00	1.70	0.85	YES	
L0003307	0	0.13450E-07	479887.7	3742836.6	440.5	0.00	1.70	0.85	YES	
L0003308	0	0.13450E-07	479887.7	3742840.3	440.5	0.00	1.70	0.85	YES	
L0003309	0	0.13450E-07	479887.7	3742843.9	440.5	0.00	1.70	0.85	YES	
L0003310	0	0.13450E-07	479887.7	3742847.6	440.5	0.00	1.70	0.85	YES	
L0003311	0	0.13450E-07	479887.8	3742851.2	440.5	0.00	1.70	0.85	YES	
L0003312	0	0.13450E-07	479887.8	3742854.9	440.5	0.00	1.70	0.85	YES	
L0003313	0	0.13450E-07	479887.8	3742858.6	440.5	0.00	1.70	0.85	YES	
L0003314	0	0.13450E-07	479887.8	3742862.2	440.5	0.00	1.70	0.85	YES	
L0003315	0	0.13450E-07	479887.8	3742865.9	440.5	0.00	1.70	0.85	YES	
L0003316	0	0.13450E-07	479887.9	3742869.5	440.5	0.00	1.70	0.85	YES	
L0003317	0	0.13450E-07	479887.9	3742873.2	440.5	0.00	1.70	0.85	YES	
L0003318	0	0.13450E-07	479887.9	3742876.9	440.5	0.00	1.70	0.85	YES	
L0003319	0	0.13450E-07	479887.9	3742880.5	440.5	0.00	1.70	0.85	YES	
L0003320	0	0.13450E-07	479888.0	3742884.2	440.5	0.00	1.70	0.85	YES	
L0003321	0	0.13450E-07	479888.0	3742887.8	440.5	0.00	1.70	0.85	YES	
L0003322	0	0.13450E-07	479888.0	3742891.5	440.5	0.00	1.70	0.85	YES	
L0003323	0	0.13450E-07	479888.0	3742895.1	440.5	0.00	1.70	0.85	YES	
L0003324	0	0.13450E-07	479888.0	3742898.8	440.5	0.00	1.70	0.85	YES	
L0003325	0	0.13450E-07	479888.1	3742902.5	440.5	0.00	1.70	0.85	YES	

L0003326	0	0.13450E-07	479888.1	3742906.1	440.4	0.00	1.70	0.85	YES
L0003327	0	0.13450E-07	479888.1	3742909.8	440.4	0.00	1.70	0.85	YES
L0003328	0	0.13450E-07	479888.1	3742913.4	440.4	0.00	1.70	0.85	YES
L0003329	0	0.13450E-07	479888.2	3742917.1	440.4	0.00	1.70	0.85	YES
L0003330	0	0.13450E-07	479888.2	3742920.7	440.4	0.00	1.70	0.85	YES
L0003331	0	0.13450E-07	479888.2	3742924.4	440.4	0.00	1.70	0.85	YES
L0003332	0	0.13450E-07	479888.2	3742928.1	440.4	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2040-2053

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003333	0	0.13450E-07	479888.2	3742931.7	440.5	0.00	1.70	0.85	YES	
L0003334	0	0.13450E-07	479888.3	3742935.4	440.5	0.00	1.70	0.85	YES	
L0003335	0	0.13450E-07	479888.3	3742939.0	440.5	0.00	1.70	0.85	YES	
L0003336	0	0.13450E-07	479888.3	3742942.7	440.5	0.00	1.70	0.85	YES	
L0003337	0	0.13450E-07	479888.3	3742946.3	440.5	0.00	1.70	0.85	YES	
L0003338	0	0.13450E-07	479888.4	3742950.0	440.5	0.00	1.70	0.85	YES	
L0003339	0	0.13450E-07	479888.4	3742953.7	440.5	0.00	1.70	0.85	YES	
L0003340	0	0.13450E-07	479888.4	3742957.3	440.5	0.00	1.70	0.85	YES	
L0003341	0	0.13450E-07	479888.4	3742961.0	440.5	0.00	1.70	0.85	YES	
L0003342	0	0.13450E-07	479888.4	3742964.6	440.5	0.00	1.70	0.85	YES	
L0003343	0	0.13450E-07	479888.5	3742968.3	440.5	0.00	1.70	0.85	YES	
L0003344	0	0.13450E-07	479888.5	3742971.9	440.5	0.00	1.70	0.85	YES	
L0003345	0	0.13450E-07	479888.5	3742975.6	440.5	0.00	1.70	0.85	YES	
L0003346	0	0.13450E-07	479888.5	3742979.3	440.5	0.00	1.70	0.85	YES	
L0003347	0	0.13450E-07	479888.6	3742982.9	440.5	0.00	1.70	0.85	YES	
L0003348	0	0.13450E-07	479888.6	3742986.6	440.6	0.00	1.70	0.85	YES	
L0003349	0	0.13450E-07	479888.6	3742990.2	440.6	0.00	1.70	0.85	YES	
L0003350	0	0.13450E-07	479888.6	3742993.9	440.6	0.00	1.70	0.85	YES	
L0003351	0	0.13450E-07	479888.6	3742997.6	440.6	0.00	1.70	0.85	YES	
L0003352	0	0.27010E-07	479888.7	3743003.9	440.6	0.00	1.70	0.85	YES	
L0003353	0	0.27010E-07	479888.7	3743007.6	440.6	0.00	1.70	0.85	YES	
L0003354	0	0.27010E-07	479888.8	3743011.2	440.6	0.00	1.70	0.85	YES	
L0003355	0	0.27010E-07	479888.8	3743014.9	440.6	0.00	1.70	0.85	YES	
L0003356	0	0.27010E-07	479888.9	3743018.5	440.6	0.00	1.70	0.85	YES	
L0003357	0	0.27010E-07	479888.9	3743022.2	440.7	0.00	1.70	0.85	YES	
L0003358	0	0.27010E-07	479889.0	3743025.9	440.7	0.00	1.70	0.85	YES	
L0003359	0	0.27010E-07	479889.1	3743029.5	440.7	0.00	1.70	0.85	YES	
L0003360	0	0.27010E-07	479889.1	3743033.2	440.7	0.00	1.70	0.85	YES	
L0003361	0	0.27010E-07	479889.2	3743036.8	440.7	0.00	1.70	0.85	YES	
L0003362	0	0.27010E-07	479889.2	3743040.5	440.7	0.00	1.70	0.85	YES	

L0003400	0	0.27010E-07	479891.3	3743179.5	440.9	0.00	1.70	0.85	YES
L0003401	0	0.27010E-07	479891.4	3743183.1	440.9	0.00	1.70	0.85	YES
L0003402	0	0.27010E-07	479891.5	3743186.8	440.9	0.00	1.70	0.85	YES
L0003403	0	0.27010E-07	479891.5	3743190.4	440.9	0.00	1.70	0.85	YES
L0003404	0	0.27010E-07	479891.6	3743194.1	440.8	0.00	1.70	0.85	YES
L0003405	0	0.27010E-07	479891.6	3743197.7	440.8	0.00	1.70	0.85	YES
L0003406	0	0.27010E-07	479891.7	3743201.4	440.8	0.00	1.70	0.85	YES
L0003407	0	0.27010E-07	479891.7	3743205.1	440.8	0.00	1.70	0.85	YES
L0003408	0	0.27010E-07	479891.8	3743208.7	440.8	0.00	1.70	0.85	YES
L0003409	0	0.27010E-07	479891.8	3743212.4	440.8	0.00	1.70	0.85	YES
L0003410	0	0.27010E-07	479891.9	3743216.0	440.8	0.00	1.70	0.85	YES
L0003411	0	0.27010E-07	479892.0	3743219.7	440.8	0.00	1.70	0.85	YES
L0003412	0	0.27010E-07	479892.0	3743223.3	440.8	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2040-2053

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003413	0	0.27010E-07	479892.1	3743227.0	440.8	0.00	1.70	0.85	YES	
L0003414	0	0.27010E-07	479892.1	3743230.7	440.8	0.00	1.70	0.85	YES	
L0003415	0	0.27010E-07	479892.2	3743234.3	440.8	0.00	1.70	0.85	YES	
L0003416	0	0.27010E-07	479892.2	3743238.0	440.8	0.00	1.70	0.85	YES	
L0003417	0	0.27010E-07	479892.3	3743241.6	440.8	0.00	1.70	0.85	YES	
L0003418	0	0.27010E-07	479892.3	3743245.3	440.8	0.00	1.70	0.85	YES	
L0003419	0	0.27010E-07	479892.4	3743248.9	440.8	0.00	1.70	0.85	YES	
L0003420	0	0.27010E-07	479892.5	3743252.6	440.7	0.00	1.70	0.85	YES	
L0003421	0	0.27010E-07	479892.5	3743256.3	440.7	0.00	1.70	0.85	YES	
L0003422	0	0.27010E-07	479892.6	3743259.9	440.7	0.00	1.70	0.85	YES	
L0003423	0	0.27010E-07	479892.6	3743263.6	440.7	0.00	1.70	0.85	YES	
L0003424	0	0.27010E-07	479892.7	3743267.2	440.7	0.00	1.70	0.85	YES	
L0003425	0	0.27010E-07	479892.7	3743270.9	440.7	0.00	1.70	0.85	YES	
L0003426	0	0.27010E-07	479892.8	3743274.5	440.7	0.00	1.70	0.85	YES	
L0003427	0	0.27010E-07	479892.9	3743278.2	440.7	0.00	1.70	0.85	YES	
L0003428	0	0.27010E-07	479892.9	3743281.9	440.6	0.00	1.70	0.85	YES	
L0003429	0	0.27010E-07	479893.0	3743285.5	440.6	0.00	1.70	0.85	YES	
L0003430	0	0.27010E-07	479893.0	3743289.2	440.6	0.00	1.70	0.85	YES	
L0003431	0	0.27010E-07	479893.1	3743292.8	440.6	0.00	1.70	0.85	YES	
L0003432	0	0.27010E-07	479893.1	3743296.5	440.6	0.00	1.70	0.85	YES	
L0003433	0	0.27010E-07	479893.2	3743300.1	440.6	0.00	1.70	0.85	YES	
L0003434	0	0.27010E-07	479893.2	3743303.8	440.6	0.00	1.70	0.85	YES	
L0003435	0	0.27010E-07	479893.3	3743307.5	440.6	0.00	1.70	0.85	YES	
L0003436	0	0.27010E-07	479893.4	3743311.1	440.6	0.00	1.70	0.85	YES	

L0003437	0	0.27010E-07	479893.4	3743314.8	440.5	0.00	1.70	0.85	YES
L0003438	0	0.27010E-07	479893.5	3743318.4	440.5	0.00	1.70	0.85	YES
L0003439	0	0.27010E-07	479893.5	3743322.1	440.5	0.00	1.70	0.85	YES
L0003440	0	0.27010E-07	479893.6	3743325.7	440.5	0.00	1.70	0.85	YES
L0003441	0	0.27010E-07	479893.6	3743329.4	440.5	0.00	1.70	0.85	YES
L0003442	0	0.27010E-07	479893.7	3743333.1	440.4	0.00	1.70	0.85	YES
L0003443	0	0.27010E-07	479893.7	3743336.7	440.4	0.00	1.70	0.85	YES
L0003444	0	0.27010E-07	479893.8	3743340.4	440.4	0.00	1.70	0.85	YES
L0003445	0	0.27010E-07	479894.4	3743344.0	440.4	0.00	1.70	0.85	YES
L0003446	0	0.27010E-07	479895.4	3743347.5	440.4	0.00	1.70	0.85	YES
L0003447	0	0.27010E-07	479896.4	3743351.0	440.3	0.00	1.70	0.85	YES
L0003448	0	0.27010E-07	479897.5	3743354.5	440.3	0.00	1.70	0.85	YES
L0003449	0	0.27010E-07	479898.4	3743358.0	440.3	0.00	1.70	0.85	YES
L0003450	0	0.27010E-07	479898.5	3743361.7	440.2	0.00	1.70	0.85	YES
L0003451	0	0.27010E-07	479898.6	3743365.3	440.2	0.00	1.70	0.85	YES
L0003452	0	0.27010E-07	479898.8	3743369.0	440.2	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003453	0	0.27010E-07	479898.9	3743372.6	440.2	0.00	1.70	0.85	YES	
L0003454	0	0.27010E-07	479899.0	3743376.3	440.1	0.00	1.70	0.85	YES	
L0003455	0	0.27010E-07	479899.2	3743379.9	440.1	0.00	1.70	0.85	YES	
L0003456	0	0.27010E-07	479899.3	3743383.6	440.1	0.00	1.70	0.85	YES	
L0003457	0	0.27010E-07	479899.4	3743387.3	440.0	0.00	1.70	0.85	YES	
L0003458	0	0.27010E-07	479899.5	3743390.9	440.0	0.00	1.70	0.85	YES	
L0003459	0	0.27010E-07	479899.7	3743394.6	439.9	0.00	1.70	0.85	YES	
L0003460	0	0.27010E-07	479899.8	3743398.2	439.9	0.00	1.70	0.85	YES	
L0003461	0	0.27010E-07	479899.9	3743401.9	439.9	0.00	1.70	0.85	YES	
L0003462	0	0.27010E-07	479900.1	3743405.5	439.8	0.00	1.70	0.85	YES	
L0003463	0	0.27010E-07	479900.2	3743409.2	439.8	0.00	1.70	0.85	YES	
L0003464	0	0.27010E-07	479900.3	3743412.8	439.8	0.00	1.70	0.85	YES	
L0003465	0	0.27010E-07	479900.4	3743416.5	439.8	0.00	1.70	0.85	YES	
L0003466	0	0.27010E-07	479900.6	3743420.2	439.8	0.00	1.70	0.85	YES	
L0003467	0	0.27010E-07	479900.7	3743423.8	439.8	0.00	1.70	0.85	YES	
L0003468	0	0.27010E-07	479900.8	3743427.5	439.8	0.00	1.70	0.85	YES	
L0003469	0	0.27010E-07	479901.0	3743431.1	439.8	0.00	1.70	0.85	YES	
L0003470	0	0.27010E-07	479901.1	3743434.8	439.8	0.00	1.70	0.85	YES	
L0003471	0	0.27010E-07	479901.2	3743438.4	439.8	0.00	1.70	0.85	YES	
L0003472	0	0.27010E-07	479901.3	3743442.1	439.8	0.00	1.70	0.85	YES	
L0003473	0	0.27010E-07	479901.5	3743445.7	439.8	0.00	1.70	0.85	YES	

L0003474	0	0.27010E-07	479901.6	3743449.4	439.9	0.00	1.70	0.85	YES
L0003475	0	0.27010E-07	479901.7	3743453.1	439.9	0.00	1.70	0.85	YES
L0003476	0	0.27010E-07	479901.9	3743456.7	439.9	0.00	1.70	0.85	YES
L0003477	0	0.27010E-07	479902.0	3743460.4	439.9	0.00	1.70	0.85	YES
L0003478	0	0.27010E-07	479902.1	3743464.0	439.9	0.00	1.70	0.85	YES
L0003479	0	0.27010E-07	479902.2	3743467.7	439.9	0.00	1.70	0.85	YES
L0003480	0	0.27010E-07	479902.4	3743471.3	439.9	0.00	1.70	0.85	YES
L0003481	0	0.27010E-07	479902.5	3743475.0	439.9	0.00	1.70	0.85	YES
L0003482	0	0.27010E-07	479902.6	3743478.6	439.9	0.00	1.70	0.85	YES
L0003483	0	0.27010E-07	479902.8	3743482.3	439.9	0.00	1.70	0.85	YES
L0003484	0	0.27010E-07	479902.9	3743486.0	439.9	0.00	1.70	0.85	YES
L0003485	0	0.27010E-07	479903.0	3743489.6	439.9	0.00	1.70	0.85	YES
L0003486	0	0.27010E-07	479903.1	3743493.3	439.9	0.00	1.70	0.85	YES
L0003487	0	0.27010E-07	479903.3	3743496.9	439.8	0.00	1.70	0.85	YES
L0003488	0	0.27010E-07	479903.4	3743500.6	439.8	0.00	1.70	0.85	YES
L0003489	0	0.27010E-07	479903.5	3743504.2	439.8	0.00	1.70	0.85	YES
L0003490	0	0.27010E-07	479903.7	3743507.9	439.8	0.00	1.70	0.85	YES
L0003491	0	0.27010E-07	479903.8	3743511.5	439.8	0.00	1.70	0.85	YES
L0003492	0	0.27010E-07	479903.9	3743515.2	439.8	0.00	1.70	0.85	YES

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2040-2053

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003493	0	0.27010E-07	479904.0	3743518.9	439.8	0.00	1.70	0.85	YES	
L0003494	0	0.27010E-07	479904.2	3743522.5	439.8	0.00	1.70	0.85	YES	
L0003495	0	0.27010E-07	479904.3	3743526.2	439.8	0.00	1.70	0.85	YES	
L0003496	0	0.27010E-07	479904.4	3743529.8	439.8	0.00	1.70	0.85	YES	
L0003497	0	0.27010E-07	479904.6	3743533.5	439.8	0.00	1.70	0.85	YES	
L0003498	0	0.27010E-07	479904.7	3743537.1	439.8	0.00	1.70	0.85	YES	
L0003499	0	0.27010E-07	479904.8	3743540.8	439.8	0.00	1.70	0.85	YES	
L0003500	0	0.27010E-07	479904.9	3743544.4	439.7	0.00	1.70	0.85	YES	
L0003501	0	0.27010E-07	479905.1	3743548.1	439.7	0.00	1.70	0.85	YES	
L0003502	0	0.27010E-07	479905.2	3743551.7	439.7	0.00	1.70	0.85	YES	
L0003503	0	0.27010E-07	479905.3	3743555.4	439.7	0.00	1.70	0.85	YES	
L0003504	0	0.27010E-07	479905.5	3743559.1	439.7	0.00	1.70	0.85	YES	
L0003505	0	0.27010E-07	479905.6	3743562.7	439.7	0.00	1.70	0.85	YES	
L0003506	0	0.27010E-07	479905.7	3743566.4	439.7	0.00	1.70	0.85	YES	
L0003507	0	0.27010E-07	479905.8	3743570.0	439.7	0.00	1.70	0.85	YES	
L0003508	0	0.27010E-07	479906.0	3743573.7	439.7	0.00	1.70	0.85	YES	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial

*** 08/18/21

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs								
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ALL	L0003133	, L0003134	, L0003135	, L0003136	, L0003137	, L0003138	, L0003139	, L0003140	,
	L0003141	, L0003142	, L0003143	, L0003144	, L0003145	, L0003146	, L0003147	, L0003148	,
	L0003149	, L0003150	, L0003151	, L0003152	, L0003153	, L0003154	, L0003155	, L0003156	,
	L0003157	, L0003158	, L0003159	, L0003160	, L0003161	, L0003162	, L0003163	, L0003164	,
	L0003165	, L0003166	, L0003167	, L0003168	, L0003169	, L0003170	, L0003171	, L0003172	,
	L0003173	, L0003174	, L0003175	, L0003176	, L0003177	, L0003178	, L0003179	, L0003180	,
	L0003181	, L0003182	, L0003183	, L0003184	, L0003185	, L0003186	, L0003187	, L0003188	,
	L0003189	, L0003190	, L0003191	, L0003192	, L0003193	, L0003194	, L0003195	, L0003196	,
	L0003197	, L0003198	, L0003199	, L0003200	, L0003201	, L0003202	, L0003203	, L0003204	,
	L0003205	, L0003206	, L0003207	, L0003208	, L0003209	, L0003210	, L0003211	, L0003212	,
	L0003213	, L0003214	, L0003215	, L0003216	, L0003217	, L0003218	, L0003219	, L0003220	,
	L0003221	, L0003222	, L0003223	, L0003224	, L0003225	, L0003226	, L0003227	, L0003228	,
	L0003229	, L0003230	, L0003231	, L0003232	, L0003233	, L0003234	, L0003235	, L0003236	,
	L0003237	, L0003238	, L0003239	, L0003240	, L0003241	, L0003242	, L0003243	, L0003244	,
	L0003245	, L0003246	, L0003247	, L0003248	, L0003249	, L0003250	, L0003251	, L0003252	,
	L0003253	, L0003254	, L0003255	, L0003256	, L0003257	, L0003258	, L0003259	, L0003260	,
	L0003261	, L0003262	, L0003263	, L0003264	, L0003265	, L0003266	, L0003267	, L0003268	,
	L0003269	, L0003270	, L0003271	, L0003272	, L0003273	, L0003274	, L0003275	, L0003276	,
	L0003277	, L0003278	, L0003279	, L0003280	, L0003281	, L0003282	, L0003283	, L0003284	,
	L0003285	, L0003286	, L0003287	, L0003288	, L0003289	, L0003290	, L0003291	, L0003292	,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial
*** AERMET - VERSION 16216 *** *** DPM Concentrations - 2040-2053

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
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L0003293	,	L0003294	,	L0003295	,	L0003296	,	L0003297	,	L0003298	,	L0003299	,	L0003300	,
L0003301	,	L0003302	,	L0003303	,	L0003304	,	L0003305	,	L0003306	,	L0003307	,	L0003308	,
L0003309	,	L0003310	,	L0003311	,	L0003312	,	L0003313	,	L0003314	,	L0003315	,	L0003316	,
L0003317	,	L0003318	,	L0003319	,	L0003320	,	L0003321	,	L0003322	,	L0003323	,	L0003324	,
L0003325	,	L0003326	,	L0003327	,	L0003328	,	L0003329	,	L0003330	,	L0003331	,	L0003332	,
L0003333	,	L0003334	,	L0003335	,	L0003336	,	L0003337	,	L0003338	,	L0003339	,	L0003340	,
L0003341	,	L0003342	,	L0003343	,	L0003344	,	L0003345	,	L0003346	,	L0003347	,	L0003348	,
L0003349	,	L0003350	,	L0003351	,	L0003352	,	L0003353	,	L0003354	,	L0003355	,	L0003356	,
L0003357	,	L0003358	,	L0003359	,	L0003360	,	L0003361	,	L0003362	,	L0003363	,	L0003364	,
L0003365	,	L0003366	,	L0003367	,	L0003368	,	L0003369	,	L0003370	,	L0003371	,	L0003372	,
L0003373	,	L0003374	,	L0003375	,	L0003376	,	L0003377	,	L0003378	,	L0003379	,	L0003380	,
L0003381	,	L0003382	,	L0003383	,	L0003384	,	L0003385	,	L0003386	,	L0003387	,	L0003388	,
L0003389	,	L0003390	,	L0003391	,	L0003392	,	L0003393	,	L0003394	,	L0003395	,	L0003396	,
L0003397	,	L0003398	,	L0003399	,	L0003400	,	L0003401	,	L0003402	,	L0003403	,	L0003404	,
L0003405	,	L0003406	,	L0003407	,	L0003408	,	L0003409	,	L0003410	,	L0003411	,	L0003412	,
L0003413	,	L0003414	,	L0003415	,	L0003416	,	L0003417	,	L0003418	,	L0003419	,	L0003420	,
L0003421	,	L0003422	,	L0003423	,	L0003424	,	L0003425	,	L0003426	,	L0003427	,	L0003428	,
L0003429	,	L0003430	,	L0003431	,	L0003432	,	L0003433	,	L0003434	,	L0003435	,	L0003436	,
L0003437	,	L0003438	,	L0003439	,	L0003440	,	L0003441	,	L0003442	,	L0003443	,	L0003444	,
L0003445	,	L0003446	,	L0003447	,	L0003448	,	L0003449	,	L0003450	,	L0003451	,	L0003452	,

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*** AERMOD - VERSION 21112 ***   *** 19371 Redlands Ave East Industrial   ***   08/18/21
*** AERMET - VERSION 16216 ***   *** DPM Concentrations - 2040-2053   ***   07:36:22
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*** MODELOPTs:   RegDFAULT CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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SRCGROUP ID	SOURCE IDs								
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	L0003453	, L0003454	, L0003455	, L0003456	, L0003457	, L0003458	, L0003459	, L0003460	,
	L0003461	, L0003462	, L0003463	, L0003464	, L0003465	, L0003466	, L0003467	, L0003468	,
	L0003469	, L0003470	, L0003471	, L0003472	, L0003473	, L0003474	, L0003475	, L0003476	,
	L0003477	, L0003478	, L0003479	, L0003480	, L0003481	, L0003482	, L0003483	, L0003484	,
	L0003485	, L0003486	, L0003487	, L0003488	, L0003489	, L0003490	, L0003491	, L0003492	,
	L0003493	, L0003494	, L0003495	, L0003496	, L0003497	, L0003498	, L0003499	, L0003500	,
	L0003501	, L0003502	, L0003503	, L0003504	, L0003505	, L0003506	, L0003507	, L0003508	,
	STCK1	, STCK2	, STCK3	, STCK4	,				

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*** AERMOD - VERSION 21112 ***   *** 19371 Redlands Ave East Industrial   ***   08/18/21
*** AERMET - VERSION 16216 ***   *** DPM Concentrations - 2040-2053   ***   07:36:22
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*** MODELOPTs:   RegDFAULT CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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URBAN ID	URBAN POP	SOURCE IDs							
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L0003140	2189641.	L0003133	, L0003134	, L0003135	, L0003136	, L0003137	, L0003138	, L0003139	,
	,								
	L0003141	, L0003142	, L0003143	, L0003144	, L0003145	, L0003146	, L0003147	, L0003148	,
	L0003149	, L0003150	, L0003151	, L0003152	, L0003153	, L0003154	, L0003155	, L0003156	,
	L0003157	, L0003158	, L0003159	, L0003160	, L0003161	, L0003162	, L0003163	, L0003164	,
	L0003165	, L0003166	, L0003167	, L0003168	, L0003169	, L0003170	, L0003171	, L0003172	,

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L0003173 , L0003174 , L0003175 , L0003176 , L0003177 , L0003178 , L0003179 , L0003180 ,
L0003181 , L0003182 , L0003183 , L0003184 , L0003185 , L0003186 , L0003187 , L0003188 ,
L0003189 , L0003190 , L0003191 , L0003192 , L0003193 , L0003194 , L0003195 , L0003196 ,
L0003197 , L0003198 , L0003199 , L0003200 , L0003201 , L0003202 , L0003203 , L0003204 ,
L0003205 , L0003206 , L0003207 , L0003208 , L0003209 , L0003210 , L0003211 , L0003212 ,
L0003213 , L0003214 , L0003215 , L0003216 , L0003217 , L0003218 , L0003219 , L0003220 ,
L0003221 , L0003222 , L0003223 , L0003224 , L0003225 , L0003226 , L0003227 , L0003228 ,
L0003229 , L0003230 , L0003231 , L0003232 , L0003233 , L0003234 , L0003235 , L0003236 ,
L0003237 , L0003238 , L0003239 , L0003240 , L0003241 , L0003242 , L0003243 , L0003244 ,
L0003245 , L0003246 , L0003247 , L0003248 , L0003249 , L0003250 , L0003251 , L0003252 ,
L0003253 , L0003254 , L0003255 , L0003256 , L0003257 , L0003258 , L0003259 , L0003260 ,
L0003261 , L0003262 , L0003263 , L0003264 , L0003265 , L0003266 , L0003267 , L0003268 ,
L0003269 , L0003270 , L0003271 , L0003272 , L0003273 , L0003274 , L0003275 , L0003276 ,
L0003277 , L0003278 , L0003279 , L0003280 , L0003281 , L0003282 , L0003283 , L0003284 ,
L0003285 , L0003286 , L0003287 , L0003288 , L0003289 , L0003290 , L0003291 , L0003292 ,

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*** AERMOD - VERSION 21112 ***   *** 19371 Redlands Ave East Industrial
*** AERMET - VERSION 16216 ***   *** DPM Concentrations - 2040-2053

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*** 08/18/21
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*** MODELOPTs:   RegDFAULT CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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URBAN ID	URBAN POP	SOURCE IDs
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L0003293	, L0003294	, L0003295 , L0003296 , L0003297 , L0003298 , L0003299 , L0003300 ,
L0003301	, L0003302	, L0003303 , L0003304 , L0003305 , L0003306 , L0003307 , L0003308 ,
L0003309	, L0003310	, L0003311 , L0003312 , L0003313 , L0003314 , L0003315 , L0003316 ,
L0003317	, L0003318	, L0003319 , L0003320 , L0003321 , L0003322 , L0003323 , L0003324 ,

L0003485 , L0003486 , L0003487 , L0003488 , L0003489 , L0003490 , L0003491 , L0003492 ,
 L0003493 , L0003494 , L0003495 , L0003496 , L0003497 , L0003498 , L0003499 , L0003500 ,
 L0003501 , L0003502 , L0003503 , L0003504 , L0003505 , L0003506 , L0003507 , L0003508 ,
 STCK1 , STCK2 , STCK3 , STCK4 ,

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/18/21
 *** AERMET - VERSION 16216 *** *** DPM Concentrations - 2040-2053 *** 07:36:22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-72.0	68.3	2	14.0	180.5	244.9	-89.3	74.8
3	14.0	207.0	246.7	-104.0	79.1	4	14.0	227.1	241.0	-115.5	81.0
5	14.0	240.4	228.0	-123.4	80.3	6	14.0	246.4	208.1	-127.7	77.3
7	14.0	244.9	181.8	-128.0	71.9	8	14.0	235.9	150.0	-124.5	64.3
9	14.0	222.0	115.9	-119.4	55.9	10	14.0	235.7	148.6	-142.6	45.8
11	14.0	244.9	180.5	-165.1	33.1	12	14.0	246.7	207.0	-182.6	19.4
13	14.0	241.0	227.1	-194.5	5.0	14	14.0	228.0	240.4	-200.6	-9.4
15	14.0	208.1	246.4	-200.5	-23.6	16	14.0	181.8	244.9	-194.3	-37.1
17	14.0	150.0	235.9	-182.3	-49.4	18	14.0	115.9	222.0	-166.8	-61.4
19	14.0	148.6	235.7	-163.7	-68.3	20	14.0	180.5	244.9	-155.6	-74.8
21	14.0	207.0	246.7	-142.8	-79.1	22	14.0	227.1	241.0	-125.6	-81.0
23	14.0	240.4	228.0	-104.6	-80.3	24	14.0	246.4	208.1	-80.4	-77.3
25	14.0	244.9	181.8	-53.8	-71.9	26	14.0	235.9	150.0	-25.5	-64.3
27	14.0	222.0	115.9	3.5	-55.9	28	14.0	235.7	148.6	-6.0	-45.8
29	14.0	244.9	180.5	-15.4	-33.1	30	14.0	246.7	207.0	-24.4	-19.4
31	14.0	241.0	227.1	-32.6	-5.0	32	14.0	228.0	240.4	-39.9	9.4
33	14.0	208.1	246.4	-45.9	23.6	34	14.0	181.8	244.9	-50.5	37.1
35	14.0	150.0	235.9	-53.6	49.4	36	14.0	115.9	222.0	-55.1	61.4

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0	148.6	235.7	-106.9	61.7	2	14.0	180.5	244.9	-122.6	62.2
3	14.0	207.0	246.7	-134.5	60.9	4	14.0	227.1	241.0	-142.4	57.7
5	14.0	240.4	228.0	-145.9	52.8	6	14.0	246.4	208.1	-145.0	46.3
7	14.0	244.9	181.8	-139.7	38.3	8	14.0	235.9	150.0	-130.2	29.2
9	14.0	222.0	115.9	-118.9	20.3	10	14.0	235.7	148.6	-135.9	10.9
11	14.0	244.9	180.5	-152.5	-0.1	12	14.0	246.7	207.0	-164.4	-11.2
13	14.0	241.0	227.1	-171.3	-21.9	14	14.0	228.0	240.4	-173.0	-31.9
15	14.0	208.1	246.4	-169.5	-41.0	16	14.0	181.8	244.9	-160.8	-48.8
17	14.0	150.0	235.9	-147.2	-55.1	18	14.0	115.9	222.0	-131.3	-61.0
19	14.0	148.6	235.7	-128.8	-61.7	20	14.0	180.5	244.9	-122.3	-62.2

21	14.0,	207.0,	246.7,	-112.2,	-60.9,	22	14.0,	227.1,	241.0,	-98.6,	-57.7,
23	14.0,	240.4,	228.0,	-82.1,	-52.8,	24	14.0,	246.4,	208.1,	-63.0,	-46.3,
25	14.0,	244.9,	181.8,	-42.1,	-38.3,	26	14.0,	235.9,	150.0,	-19.8,	-29.2,
27	14.0,	222.0,	115.9,	3.0,	-20.3,	28	14.0,	235.7,	148.6,	-12.6,	-10.9,
29	14.0,	244.9,	180.5,	-28.0,	0.1,	30	14.0,	246.7,	207.0,	-42.6,	11.2,
31	14.0,	241.0,	227.1,	-55.8,	21.9,	32	14.0,	228.0,	240.4,	-67.4,	31.9,
33	14.0,	208.1,	246.4,	-76.9,	41.0,	34	14.0,	181.8,	244.9,	-84.1,	48.8,
35	14.0,	150.0,	235.9,	-88.7,	55.1,	36	14.0,	115.9,	222.0,	-90.7,	61.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-140.4,	55.1,	2	14.0,	180.5,	244.9,	-154.4,	49.9,
3	14.0,	207.0,	246.7,	-163.7,	43.3,	4	14.0,	227.1,	241.0,	-168.1,	35.3,
5	14.0,	240.4,	228.0,	-167.3,	26.2,	6	14.0,	246.4,	208.1,	-161.5,	16.4,
7	14.0,	244.9,	181.8,	-150.7,	6.0,	8	14.0,	235.9,	150.0,	-135.4,	-4.5,
9	14.0,	222.0,	115.9,	-118.3,	-13.8,	10	14.0,	235.7,	148.6,	-129.4,	-22.6,
11	14.0,	244.9,	180.5,	-140.2,	-31.9,	12	14.0,	246.7,	207.0,	-146.8,	-40.4,
13	14.0,	241.0,	227.1,	-148.9,	-47.6,	14	14.0,	228.0,	240.4,	-146.5,	-53.3,
15	14.0,	208.1,	246.4,	-139.6,	-57.5,	16	14.0,	181.8,	244.9,	-128.5,	-59.8,
17	14.0,	150.0,	235.9,	-113.5,	-60.4,	18	14.0,	115.9,	222.0,	-97.2,	-60.3,
19	14.0,	148.6,	235.7,	-95.3,	-55.1,	20	14.0,	180.5,	244.9,	-90.5,	-49.9,
21	14.0,	207.0,	246.7,	-83.0,	-43.3,	22	14.0,	227.1,	241.0,	-73.0,	-35.3,
23	14.0,	240.4,	228.0,	-60.7,	-26.2,	24	14.0,	246.4,	208.1,	-46.6,	-16.4,
25	14.0,	244.9,	181.8,	-31.1,	-6.0,	26	14.0,	235.9,	150.0,	-14.6,	4.5,
27	14.0,	222.0,	115.9,	2.3,	13.8,	28	14.0,	235.7,	148.6,	-19.2,	22.6,
29	14.0,	244.9,	180.5,	-40.3,	31.9,	30	14.0,	246.7,	207.0,	-60.2,	40.4,
31	14.0,	241.0,	227.1,	-78.3,	47.6,	32	14.0,	228.0,	240.4,	-94.0,	53.3,
33	14.0,	208.1,	246.4,	-106.8,	57.5,	34	14.0,	181.8,	244.9,	-116.4,	59.8,
35	14.0,	150.0,	235.9,	-122.5,	60.4,	36	14.0,	115.9,	222.0,	-124.8,	60.3,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	148.6,	235.7,	-177.9,	45.9,	2	14.0,	180.5,	244.9,	-189.7,	34.3,
3	14.0,	207.0,	246.7,	-195.8,	21.8,	4	14.0,	227.1,	241.0,	-195.9,	8.6,
5	14.0,	240.4,	228.0,	-190.1,	-4.9,	6	14.0,	246.4,	208.1,	-178.5,	-18.2,
7	14.0,	244.9,	181.8,	-161.5,	-31.0,	8	14.0,	235.9,	150.0,	-139.6,	-42.9,
9	14.0,	222.0,	115.9,	-115.7,	-52.3,	10	14.0,	235.7,	148.6,	-120.1,	-60.0,
11	14.0,	244.9,	180.5,	-124.6,	-67.3,	12	14.0,	246.7,	207.0,	-125.3,	-72.4,
13	14.0,	241.0,	227.1,	-122.1,	-75.4,	14	14.0,	228.0,	240.4,	-115.3,	-76.1,
15	14.0,	208.1,	246.4,	-105.0,	-74.5,	16	14.0,	181.8,	244.9,	-91.4,	-70.6,
17	14.0,	150.0,	235.9,	-75.1,	-64.6,	18	14.0,	115.9,	222.0,	-58.7,	-57.7,
19	14.0,	148.6,	235.7,	-57.8,	-45.9,	20	14.0,	180.5,	244.9,	-55.2,	-34.3,
21	14.0,	207.0,	246.7,	-50.9,	-21.8,	22	14.0,	227.1,	241.0,	-45.1,	-8.6,
23	14.0,	240.4,	228.0,	-37.9,	4.9,	24	14.0,	246.4,	208.1,	-29.5,	18.2,
25	14.0,	244.9,	181.8,	-20.3,	31.0,	26	14.0,	235.9,	150.0,	-10.4,	42.9,
27	14.0,	222.0,	115.9,	-0.2,	52.3,	28	14.0,	235.7,	148.6,	-28.4,	60.0,
29	14.0,	244.9,	180.5,	-55.9,	67.3,	30	14.0,	246.7,	207.0,	-81.7,	72.4,
31	14.0,	241.0,	227.1,	-105.0,	75.4,	32	14.0,	228.0,	240.4,	-125.1,	76.1,
33	14.0,	208.1,	246.4,	-141.4,	74.5,	34	14.0,	181.8,	244.9,	-153.5,	70.6,

35 14.0, 150.0, 235.9, -160.8, 64.6, 36 14.0, 115.9, 222.0, -163.3, 57.7,

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/18/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2040-2053 *** 07:36:22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

479078.2, 479169.0, 479259.9, 479350.8, 479441.7, 479532.6, 479623.4, 479714.3, 479805.2, 479896.1,
479987.0, 480077.8, 480168.7, 480259.6, 480350.5, 480441.4, 480532.2, 480623.1, 480714.0, 480804.9,
480895.8,

*** Y-COORDINATES OF GRID ***
(METERS)

3742099.5, 3742178.4, 3742257.3, 3742336.2, 3742415.1, 3742494.0, 3742573.0, 3742651.9, 3742730.8, 3742809.7,
3742888.6, 3742967.5, 3743046.4, 3743125.3, 3743204.2, 3743283.1, 3743362.1, 3743441.0, 3743519.9, 3743598.8,
3743677.7,

*** AERMOD - VERSION 21112 *** 19371 Redlands Ave East Industrial *** 08/18/21
*** AERMET - VERSION 16216 *** DPM Concentrations - 2040-2053 *** 07:36:22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	479078.16	479169.04	479259.92	479350.80	479441.68	479532.56	479623.44	479714.32	479805.20
3743677.70	444.10	443.80	443.20	442.70	442.30	441.10	440.40	440.50	440.50
3743598.79	443.60	443.50	443.10	442.60	442.30	440.40	440.20	439.80	439.30
3743519.88	443.70	443.80	443.50	442.80	441.80	440.50	440.40	440.40	439.70
3743440.97	443.70	443.60	443.20	442.80	441.10	440.20	439.40	439.60	439.50
3743362.06	443.60	443.30	442.80	442.30	442.00	441.00	440.50	440.70	440.00
3743283.15	443.80	443.30	442.20	441.90	440.80	441.30	441.10	440.90	440.40
3743204.24	444.00	443.40	442.60	442.50	441.60	441.10	441.30	441.10	440.70
3743125.33	444.00	443.00	442.70	442.40	442.10	440.50	440.30	440.40	441.00
3743046.42	443.90	443.00	442.70	442.40	442.20	441.90	441.40	441.20	440.80
3742967.51	443.70	443.10	442.60	442.20	442.00	441.70	441.30	440.90	440.60
3742888.60	443.50	443.00	442.60	442.20	442.00	441.70	441.40	441.00	440.70
3742809.69	442.90	442.80	442.20	442.00	441.80	441.30	440.50	440.70	440.50

3742967.51	443.70	443.10	442.60	442.20	442.00	441.70	441.30	440.90	440.60
3742888.60	443.50	443.00	442.60	442.20	442.00	441.70	441.40	441.00	440.70
3742809.69	442.90	442.80	442.20	442.00	441.80	441.30	440.50	440.70	440.50
3742730.78	442.50	442.40	441.80	441.70	441.40	441.00	440.60	440.40	440.30
3742651.87	442.10	442.00	441.70	441.30	440.90	440.90	440.50	439.80	440.40
3742572.96	441.60	441.60	441.20	440.90	440.50	440.50	440.20	439.90	438.10
3742494.05	441.10	441.00	441.10	440.60	440.60	440.10	439.70	439.90	440.20
3742415.14	440.80	441.50	441.30	440.20	440.00	440.20	439.40	438.40	439.30
3742336.23	440.60	441.00	440.80	439.90	439.70	440.00	440.10	438.60	437.90
3742257.32	440.50	440.40	440.00	439.50	439.30	439.40	439.30	439.50	437.90
3742178.41	440.10	440.30	439.90	439.50	439.20	439.10	439.30	439.40	438.90
3742099.50	439.90	440.10	439.60	439.10	438.80	439.00	439.00	439.20	438.90

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*** AERMOD - VERSION 21112 ***   *** 19371 Redlands Ave East Industrial   ***   08/18/21
*** AERMET - VERSION 16216 ***   *** DPM Concentrations - 2040-2053   ***   07:36:22
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*** MODELOPTs:   RegDFAULT   CONC   ELEV   URBAN   ADJ_U*

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*** NETWORK ID: UCART1   ;   NETWORK TYPE: GRIDCART ***

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* HILL HEIGHT SCALES IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)								
	479896.08	479986.96	480077.84	480168.72	480259.60	480350.48	480441.36	480532.24	480623.12
3743677.70	440.70	440.50	440.20	440.10	440.00	440.10	439.90	439.50	439.60
3743598.79	439.50	440.00	439.90	439.90	439.70	439.60	438.80	438.60	438.90
3743519.88	439.70	439.90	439.70	439.70	439.60	439.50	438.60	438.40	438.50
3743440.97	439.80	439.80	439.60	439.60	439.50	439.40	439.60	439.70	438.20
3743362.06	440.20	439.90	439.60	439.50	439.50	439.30	439.10	438.00	438.90
3743283.15	440.60	440.10	439.60	439.30	439.20	439.70	439.20	436.80	439.30
3743204.24	440.80	440.30	439.80	439.60	439.40	440.10	439.10	438.60	438.50
3743125.33	440.90	440.50	440.00	439.50	439.20	439.00	438.90	438.80	436.60
3743046.42	440.70	440.20	440.00	439.60	439.20	439.40	438.90	438.60	436.40
3742967.51	440.50	440.00	439.60	439.20	439.10	438.70	438.70	438.50	438.20
3742888.60	440.40	439.80	439.40	438.90	438.80	438.70	438.60	438.50	438.40
3742809.69	440.40	439.90	439.40	438.90	438.70	438.60	438.50	438.40	438.30
3742730.78	440.30	439.80	439.50	438.90	439.00	438.60	438.50	438.40	438.30
3742651.87	440.30	439.90	439.40	438.90	439.00	438.60	438.60	438.40	438.20
3742572.96	440.00	439.80	439.40	439.20	438.90	439.50	438.60	438.40	438.10
3742494.05	440.00	439.70	439.50	439.50	439.20	438.90	438.60	438.30	438.10
3742415.14	440.10	439.90	439.60	439.50	439.30	439.00	438.80	438.60	438.30
3742336.23	439.90	439.70	439.50	439.30	439.10	438.70	438.50	438.30	438.00
3742257.32	439.60	439.30	439.20	439.00	439.00	438.60	438.30	438.00	437.70
3742178.41	439.20	439.10	439.10	438.80	438.80	438.80	438.30	437.90	437.60
3742099.50	438.90	438.80	438.70	438.60	438.60	438.30	438.20	438.10	438.20

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*** AERMOD - VERSION 21112 ***   *** 19371 Redlands Ave East Industrial   ***   08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	480714.00	480804.88	480895.76	X-COORD (METERS)
3743677.70	440.70	441.10	441.40	
3743598.79	441.00	441.60	442.10	
3743519.88	441.10	441.60	441.70	
3743440.97	441.00	441.50	441.30	
3743362.06	440.60	440.90	440.70	
3743283.15	439.20	439.30	439.50	
3743204.24	439.20	439.40	439.60	
3743125.33	439.70	440.20	440.60	
3743046.42	439.30	440.60	441.00	
3742967.51	436.00	439.90	440.20	
3742888.60	435.50	439.40	440.40	
3742809.69	436.60	437.10	439.80	
3742730.78	437.70	435.20	439.30	
3742651.87	437.80	435.00	437.90	
3742572.96	437.90	435.80	437.50	
3742494.05	437.80	437.20	437.10	
3742415.14	438.00	437.30	435.10	
3742336.23	438.00	437.30	435.10	
3742257.32	437.80	437.20	435.90	
3742178.41	437.40	437.10	436.00	
3742099.50	437.50	436.90	435.60	

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(479945.7, 3742742.3,	440.0,	440.0,	0.0);	(479918.5, 3742530.0,	439.9,	439.9,	0.0);
(480257.8, 3742923.6,	438.8,	438.8,	0.0);	(480244.2, 3743075.6,	439.2,	439.2,	0.0);
(480129.0, 3743128.0,	439.8,	439.8,	0.0);	(480038.2, 3743314.8,	439.8,	439.8,	0.0);
(479607.4, 3742910.0,	441.5,	441.5,	0.0);	(479740.5, 3742698.9,	440.3,	440.3,	0.0);
(479757.3, 3743380.4,	440.4,	440.4,	0.0);				

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

Profile format: FREE
 Surface station no.: 3171
 Name: UNKNOWN
 Year: 2010

Upper air station no.: 3190
 Name: UNKNOWN
 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5			
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5			
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5			
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5			
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5			
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5			
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5			
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5			
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5			
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5			
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5			
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5			
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5			
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5			
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5			
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5			
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5			
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5			
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5			
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5			
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5			
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5			
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5			
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

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

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003133 , L0003134 , L0003135 , L0003136 , L0003137 ,
 L0003138 , L0003139 , L0003140 , L0003141 , L0003142 , L0003143 , L0003144 , L0003145 ,
 L0003146 , L0003147 , L0003148 , L0003149 , L0003150 , L0003151 , L0003152 , L0003153 ,
 L0003154 , L0003155 , L0003156 , L0003157 , L0003158 , L0003159 , L0003160 , . . . ,

3742809.69	0.00017	0.00014	0.00012
3742730.78	0.00018	0.00014	0.00012
3742651.87	0.00018	0.00014	0.00012
3742572.96	0.00018	0.00014	0.00012
3742494.05	0.00019	0.00014	0.00011
3742415.14	0.00018	0.00014	0.00011
3742336.23	0.00018	0.00014	0.00011
3742257.32	0.00017	0.00013	0.00011
3742178.41	0.00015	0.00012	0.00010
3742099.50	0.00014	0.00012	0.00010

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003133 , L0003134 , L0003135 , L0003136 , L0003137 ,
 L0003138 , L0003139 , L0003140 , L0003141 , L0003142 , L0003143 , L0003144 , L0003145 ,
 L0003146 , L0003147 , L0003148 , L0003149 , L0003150 , L0003151 , L0003152 , L0003153 ,
 L0003154 , L0003155 , L0003156 , L0003157 , L0003158 , L0003159 , L0003160 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479945.68	3742742.32	0.00211	479918.48	3742530.00	0.00058
480257.79	3742923.65	0.00082	480244.23	3743075.64	0.00091
480128.98	3743127.99	0.00144	480038.23	3743314.81	0.00101
479607.39	3742910.04	0.00046	479740.51	3742698.91	0.00056
479757.35	3743380.40	0.00069			

*** AERMOD - VERSION 21112 *** *** 19371 Redlands Ave East Industrial *** 08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00459 AT (480077.84, 3742888.60, 439.40, 439.40, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00449 AT (480077.84, 3742809.69, 439.40, 439.40, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00427 AT (479896.08, 3743046.42, 440.70, 440.70, 0.00)	GC	UCART1

4TH HIGHEST VALUE IS 0.00421 AT (479896.08, 3743125.33, 440.90, 440.90, 0.00) GC UCART1
5TH HIGHEST VALUE IS 0.00412 AT (480077.84, 3742967.51, 439.60, 439.60, 0.00) GC UCART1
6TH HIGHEST VALUE IS 0.00389 AT (479986.96, 3743046.42, 440.20, 440.20, 0.00) GC UCART1
7TH HIGHEST VALUE IS 0.00383 AT (479896.08, 3743204.24, 440.80, 440.80, 0.00) GC UCART1
8TH HIGHEST VALUE IS 0.00351 AT (479986.96, 3742967.51, 440.00, 440.00, 0.00) GC UCART1
9TH HIGHEST VALUE IS 0.00349 AT (479986.96, 3742888.60, 439.80, 439.80, 0.00) GC UCART1
10TH HIGHEST VALUE IS 0.00334 AT (479896.08, 3743440.97, 439.80, 439.80, 0.00) GC UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 21112 *** ** 19371 Redlands Ave East Industrial
*** AERMET - VERSION 16216 *** ** DPM Concentrations - 2040-2053

*** 08/18/21
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 8 Warning Message(s)
A Total of 2028 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 978 Calm Hours Identified

A Total of 1050 Missing Hours Identified (2.40 Percent)

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

***** WARNING MESSAGES *****
SO W320 861 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 862 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 863 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 864 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 1032 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 1032 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 14010101
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 2 year gap

*** AERMOD Finishes Successfully ***

EMFAC2021 for Riverside (SC)

PM10 Running and Idling Exhaust

Area	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
						(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
Riverside (SC)	Annual	LHDT2	DSL	Aggregated	0	0.787704	0.788815	0.79041	0.792099	0.793443	0.795102	0.796603	0.797478	0.795695	0.796184	0.795717	0.793787	
Riverside (SC)	Annual	LHDT2	DSL	Aggregated	5	0.064801	0.061574	0.058555	0.055644	0.0529	0.050412	0.048159	0.046096	0.044133	0.042483	0.040943	0.039478	
Riverside (SC)	Annual	LHDT2	DSL	Aggregated	10	0.049607	0.04761	0.045744	0.043936	0.042229	0.04068	0.039275	0.037984	0.036744	0.035705	0.034726	0.033781	
Riverside (SC)	Annual	LHDT2	DSL	Aggregated	35	0.019287	0.018824	0.018391	0.017966	0.017562	0.017195	0.016859	0.016547	0.016238	0.015982	0.015733	0.015483	
Riverside (SC)	Annual	MHDT	DSL	Aggregated	0	0.043967	0.038351	0.032887	0.028163	0.024482	0.021469	0.019023	0.016871	0.014933	0.013514	0.012353	0.011424	
Riverside (SC)	Annual	MHDT	DSL	Aggregated	5	0.006736	0.006571	0.006394	0.006222	0.00606	0.005934	0.005821	0.005713	0.00561	0.005519	0.005445	0.005375	
Riverside (SC)	Annual	MHDT	DSL	Aggregated	10	0.005836	0.005702	0.005556	0.005413	0.005279	0.005175	0.005081	0.004991	0.004905	0.004829	0.004767	0.004709	
Riverside (SC)	Annual	MHDT	DSL	Aggregated	35	0.003935	0.003951	0.003952	0.003939	0.003919	0.00391	0.0039	0.0039	0.003886	0.003869	0.003854	0.003842	0.003827
Riverside (SC)	Annual	HHDT	DSL	Aggregated	0	0.012569	0.012319	0.012103	0.01185	0.011625	0.011464	0.01127	0.011067	0.010916	0.010806	0.010682	0.010536	
Riverside (SC)	Annual	HHDT	DSL	Aggregated	5	0.013015	0.013009	0.012891	0.012711	0.01253	0.01236	0.012167	0.01198	0.011821	0.011671	0.011519	0.011343	
Riverside (SC)	Annual	HHDT	DSL	Aggregated	10	0.011385	0.011388	0.011292	0.01114	0.010985	0.01084	0.010673	0.010511	0.010374	0.010245	0.010112	0.009959	
Riverside (SC)	Annual	HHDT	DSL	Aggregated	35	0.008784	0.008889	0.008899	0.008855	0.008797	0.008732	0.008648	0.008564	0.008494	0.008425	0.008356	0.008274	

	14 yr		14 yr		14 yr		14 yr	
	2026-2039	2026-2039	2026-2039	2026-2039	2026-2039	2026-2039	2026-2039	2026-2039
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.04296	0.03597	0.01602	0.79372				
MHDT	0.00555	0.00485	0.00384	0.01499				
HHDT	0.01167	0.01025	0.00842	0.01085				
	14 yr		14 yr		14 yr		14 yr	
	2040-2053	2040-2053	2040-2053	2040-2053	2040-2053	2040-2053	2040-2053	2040-2053
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.03181	0.02896	0.01430	0.79463				
MHDT	0.00494	0.00434	0.00367	0.00764				
HHDT	0.01089	0.00957	0.00810	0.01014				
	2 yr		2 yr		2 yr		2 yr	
	2024&2025	2024&2025	2024&2025	2024&2025	2024&2025	2024&2025	2024&2025	2024&2025
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.06006	0.04668	0.01861	0.78961				
MHDT	0.00648	0.00563	0.00395	0.03562				
HHDT	0.01295	0.01134	0.00889	0.01221				
	1 yr		1 yr		1 yr		1 yr	
	2023	2023	2023	2023	2023	2023	2023	2023
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.06480	0.04961	0.01929	0.78770				
MHDT	0.00674	0.00584	0.00393	0.04397				
HHDT	0.01302	0.01139	0.00878	0.01257				

2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
0.791222	0.79107	0.791116	0.790956	0.791586	0.792098	0.792516	0.792807	0.79303	0.793517	0.793923	0.794428	0.794848	0.795265	0.795781	0.796661	0.796661	0.796661	0.796661
0.037983	0.03704	0.036168	0.035381	0.034666	0.03411	0.033677	0.033368	0.033141	0.032711	0.032349	0.031916	0.031563	0.031221	0.03081	0.030128	0.030128	0.030128	0.030128
0.032811	0.032218	0.031667	0.031168	0.030716	0.030368	0.030099	0.029912	0.02978	0.029515	0.029293	0.029024	0.028808	0.028599	0.028345	0.027917	0.027917	0.027917	0.027917
0.015221	0.015075	0.014938	0.014812	0.014699	0.014616	0.014552	0.014512	0.014488	0.014427	0.014377	0.014314	0.014266	0.014219	0.014161	0.014057	0.014057	0.014057	0.014057
0.010586	0.009897	0.009429	0.009035	0.008727	0.008434	0.008204	0.008022	0.007872	0.00774	0.007617	0.007526	0.00745	0.007401	0.007367	0.007339	0.007339	0.007339	0.007339
0.005303	0.005233	0.005179	0.005131	0.005087	0.005047	0.005012	0.004985	0.004962	0.004943	0.004929	0.004918	0.00491	0.004906	0.004905	0.004904	0.004904	0.004904	0.004904
0.004649	0.004591	0.004546	0.004505	0.004468	0.004434	0.004405	0.004382	0.004362	0.004347	0.004334	0.004325	0.004318	0.004315	0.004313	0.004313	0.004313	0.004313	0.004313
0.003806	0.003787	0.003769	0.003752	0.003734	0.003718	0.003703	0.003692	0.003682	0.003674	0.003669	0.003665	0.003661	0.003658	0.003657	0.003657	0.003657	0.003657	0.003657
0.010437	0.010378	0.010337	0.010304	0.010265	0.010238	0.010215	0.010194	0.010181	0.010167	0.010151	0.010136	0.010124	0.010111	0.0101	0.010093	0.010093	0.010093	0.010093
0.011205	0.011113	0.011047	0.011001	0.010958	0.010935	0.010919	0.010908	0.010902	0.010894	0.010885	0.010876	0.010871	0.01087	0.010871	0.010875	0.010875	0.010875	0.010875
0.009839	0.009762	0.009705	0.009666	0.009631	0.009612	0.009599	0.00959	0.009585	0.009579	0.009572	0.009565	0.009561	0.00956	0.009561	0.009564	0.009564	0.009564	0.009564
0.008207	0.008167	0.008136	0.008115	0.008101	0.008095	0.008092	0.008094	0.008096	0.008099	0.008101	0.008103	0.008104	0.008104	0.008105	0.008108	0.008108	0.008108	0.008108

*Note: 2051 through 2053 data is the same as the 2050 data as 2021 EMFAC only has up to year 2050 data available.

APPENDIX D

CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS AND EMFAC DATA

19371 Redlands Avenue East Industrial Project - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

19371 Redlands Avenue East Industrial Project

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	254.51	1000sqft	5.75	254,511.00	0
Other Asphalt Surfaces	3.97	Acre	3.97	172,933.20	0
Other Non-Asphalt Surfaces	61.75	1000sqft	1.42	61,752.00	0
Parking Lot	161.00	Space	1.45	64,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 12.59 acres w/ 254.511 TSF warehouse (w/ 4 TSF mezzanine), 61,752 sf landscaping, 114 auto parking & 47 trailer parking stalls, & remainder paving of on-site drives/loading area etc. (~3.97ac).

Construction Phase - Construction anticipated to begin early November 2022 & be completed by the beginning of August 2023. Site vacant, no demo/site prep.

Off-road Equipment -

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~48%; therefore, ~48% more equipment added to default CalEEMod equipment list for building construction.

Grading - ~26,435 CY import during grading.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings for buildings to 50 g/L VOC.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Trips - Per Traffic Study, 1.81 trips/TSF/day. Percentages changed to 73% autos (C-W) & 27% trucks (C-NW). Per SCAQMD C-NW trip length changed to 40 miles.

Sequestration - ~169 new trees per landscape plans.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site ~0.5 miles east of RTA Rte19 stop Perris FS Ensenada & ~2.96 miles NE downtown portion of Perris. Sidewalks on/off-site.

Water Mitigation - 20% reduction indoor water use per CalGreen standards. Water efficient irrigation systems.

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle fleet mix per traffic study of 73% Autos, 4.5% 2-Axle Trucks, 5.6% 3-Axle Trucks and 16.9% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	155.00
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.53	0.42
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.17	0.14
tblFleetMix	LHD1	0.03	0.04
tblFleetMix	LHD2	7.3100e-003	9.7020e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.11
tblFleetMix	MH	5.4680e-003	0.00
tblFleetMix	MHD	0.01	0.06
tblFleetMix	OBUS	6.1600e-004	0.00
tblFleetMix	SBUS	1.1000e-003	0.00
tblFleetMix	UBUS	3.1500e-004	0.00
tblGrading	MaterialImported	0.00	26,435.00
tblLandUse	LandUseSquareFeet	254,510.00 Apx-269	254,511.00

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tblLandUse	LotAcreage	5.84	5.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	169.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	41.00	27.00
tblVehicleTrips	CW_TTP	59.00	73.00
tblVehicleTrips	ST_TR	1.74	1.81
tblVehicleTrips	SU_TR	1.74	1.81
tblVehicleTrips	WD_TR	1.74	1.81

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0852	1.0015	0.7182	2.4500e-003	0.1935	0.0357	0.2292	0.0697	0.0331	0.1028	0.0000	224.9475	224.9475	0.0342	0.0166	230.7496
2023	0.8818	1.8950	2.3982	5.7100e-003	0.2305	0.0808	0.3113	0.0621	0.0758	0.1380	0.0000	512.3655	512.3655	0.0704	0.0198	520.0238
Maximum	0.8818	1.8950	2.3982	5.7100e-003	0.2305	0.0808	0.3113	0.0697	0.0758	0.1380	0.0000	512.3655	512.3655	0.0704	0.0198	520.0238

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0852	1.0015	0.7182	2.4500e-003	0.1082	0.0357	0.1439	0.0361	0.0331	0.0692	0.0000	224.9474	224.9474	0.0342	0.0166	230.7495
2023	0.8818	1.8950	2.3982	5.7100e-003	0.2305	0.0808	0.3113	0.0621	0.0758	0.1380	0.0000	512.3652	512.3652	0.0704	0.0198	520.0235
Maximum	0.8818	1.8950	2.3982	5.7100e-003	0.2305	0.0808	0.3113	0.0621	0.0758	0.1380	0.0000	512.3652	512.3652	0.0704	0.0198	520.0235

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	20.10	0.00	15.77	25.48	0.00	13.95	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2022	1-31-2023	1.3947	1.3947
2	2-1-2023	4-30-2023	0.9015	0.9015
3	5-1-2023	7-31-2023	1.5501	1.5501
4	8-1-2023	9-30-2023	0.0157	0.0157
		Highest	1.5501	1.5501

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0617	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127
Energy	2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	136.0130	136.0130	9.7000e-003	1.6100e-003	136.7360
Mobile	0.3289	2.2887	4.3373	0.0195	1.4007	0.0264	1.4270	0.3784	0.0251	0.4035	0.0000	1,852.3318	1,852.3318	0.0482	0.1804	1,907.2999
Waste						0.0000	0.0000		0.0000	0.0000	48.5636	0.0000	48.5636	2.8700	0.0000	120.3142
Water						0.0000	0.0000		0.0000	0.0000	18.6721	135.9099	154.5821	1.9293	0.0467	216.7228
Total	1.3934	2.3139	4.3645	0.0197	1.4007	0.0283	1.4290	0.3784	0.0270	0.4054	67.2357	2,124.2667	2,191.5023	4.8572	0.2287	2,381.0857

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0617	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127
Energy	2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	136.0130	136.0130	9.7000e-003	1.6100e-003	136.7360
Mobile	0.2790	1.8352	3.4697	0.0151	1.0745	0.0203	1.0948	0.2903	0.0193	0.3096	0.0000	1,431.9157	1,431.9157	0.0389	0.1407	1,474.8030
Waste						0.0000	0.0000		0.0000	0.0000	12.1409	0.0000	12.1409	0.7175	0.0000	30.0785
Water						0.0000	0.0000		0.0000	0.0000	14.9377	108.7280	123.6656	1.5434	0.0373	173.3783
Total	1.3435	1.8604	3.4969	0.0153	1.0745	0.0222	1.0967	0.2903	0.0212	0.3115	27.0786	1,676.6686	1,703.7472	2.3096	0.1796	1,815.0085

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.58	19.60	19.88	22.55	23.29	21.43	23.25	23.29	21.34	23.16	59.73	21.07	22.26	52.45	21.47	23.77

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	119.6520
Total	119.6520

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2022	12/12/2022	5	30	
2	Building Construction	Building Construction	12/13/2022	7/17/2023	5	155	
3	Paving	Paving	6/1/2023	6/28/2023	5	20	
4	Architectural Coating	Architectural Coating	6/21/2023	8/1/2023	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 6.84

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,767; Non-Residential Outdoor: 127,256; Striped Parking Area: 17,945 (Architectural Coating – sqft)

OffRoad Equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	3,304.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	13	233.00	91.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1397	0.0000	0.1397	0.0551	0.0000	0.0551	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633
Total	0.0544	0.5827	0.4356	9.3000e-004	0.1397	0.0245	0.1643	0.0551	0.0226	0.0776	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1200e-003	0.2225	0.0475	9.5000e-004	0.0285	2.4500e-003	0.0310	7.8200e-003	2.3500e-003	0.0102	0.0000	91.9506	91.9506	1.2400e-003	0.0145	96.2981
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	8.2000e-004	0.0102	3.0000e-005	3.3000e-003	2.0000e-005	3.3100e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6074	2.6074	7.0000e-005	7.0000e-005	2.6306
Total	6.1700e-003	0.2233	0.0577	9.8000e-004	0.0318	2.4700e-003	0.0343	8.7000e-003	2.3700e-003	0.0111	0.0000	94.5580	94.5580	1.3100e-003	0.0146	98.9287

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3.2 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0545	0.0000	0.0545	0.0215	0.0000	0.0215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632
Total	0.0544	0.5827	0.4356	9.3000e-004	0.0545	0.0245	0.0790	0.0215	0.0226	0.0440	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1200e-003	0.2225	0.0475	9.5000e-004	0.0285	2.4500e-003	0.0310	7.8200e-003	2.3500e-003	0.0102	0.0000	91.9506	91.9506	1.2400e-003	0.0145	96.2981
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	8.2000e-004	0.0102	3.0000e-005	3.3000e-003	2.0000e-005	3.3100e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6074	2.6074	7.0000e-005	7.0000e-005	2.6306
Total	6.1700e-003	0.2233	0.0577	9.8000e-004	0.0318	2.4700e-003	0.0343	8.7000e-003	2.3700e-003	0.0111	0.0000	94.5580	94.5580	1.3100e-003	0.0146	98.9287

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3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0180	0.1628	0.1598	2.7000e-004		8.2200e-003	8.2200e-003		7.7100e-003	7.7100e-003	0.0000	23.2573	23.2573	5.8900e-003	0.0000	23.4047
Total	0.0180	0.1628	0.1598	2.7000e-004		8.2200e-003	8.2200e-003		7.7100e-003	7.7100e-003	0.0000	23.2573	23.2573	5.8900e-003	0.0000	23.4047

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0283	9.5300e-003	1.2000e-004	4.0200e-003	3.9000e-004	4.4100e-003	1.1600e-003	3.7000e-004	1.5300e-003	0.0000	11.1550	11.1550	1.2000e-004	1.6600e-003	11.6512
Worker	5.7000e-003	4.4400e-003	0.0556	1.5000e-004	0.0179	9.0000e-005	0.0180	4.7600e-003	8.0000e-005	4.8400e-003	0.0000	14.1753	14.1753	3.8000e-004	3.9000e-004	14.3017
Total	6.7100e-003	0.0327	0.0651	2.7000e-004	0.0220	4.8000e-004	0.0224	5.9200e-003	4.5000e-004	6.3700e-003	0.0000	25.3303	25.3303	5.0000e-004	2.0500e-003	25.9529

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3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0180	0.1628	0.1598	2.7000e-004		8.2200e-003	8.2200e-003		7.7100e-003	7.7100e-003	0.0000	23.2573	23.2573	5.8900e-003	0.0000	23.4046
Total	0.0180	0.1628	0.1598	2.7000e-004		8.2200e-003	8.2200e-003		7.7100e-003	7.7100e-003	0.0000	23.2573	23.2573	5.8900e-003	0.0000	23.4046

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0283	9.5300e-003	1.2000e-004	4.0200e-003	3.9000e-004	4.4100e-003	1.1600e-003	3.7000e-004	1.5300e-003	0.0000	11.1550	11.1550	1.2000e-004	1.6600e-003	11.6512
Worker	5.7000e-003	4.4400e-003	0.0556	1.5000e-004	0.0179	9.0000e-005	0.0180	4.7600e-003	8.0000e-005	4.8400e-003	0.0000	14.1753	14.1753	3.8000e-004	3.9000e-004	14.3017
Total	6.7100e-003	0.0327	0.0651	2.7000e-004	0.0220	4.8000e-004	0.0224	5.9200e-003	4.5000e-004	6.3700e-003	0.0000	25.3303	25.3303	5.0000e-004	2.0500e-003	25.9529

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3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1671	1.5120	1.5950	2.7400e-003		0.0719	0.0719		0.0675	0.0675	0.0000	234.3089	234.3089	0.0590	0.0000	235.7828
Total	0.1671	1.5120	1.5950	2.7400e-003		0.0719	0.0719		0.0675	0.0675	0.0000	234.3089	234.3089	0.0590	0.0000	235.7828

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9500e-003	0.2200	0.0876	1.1200e-003	0.0405	1.8300e-003	0.0424	0.0117	1.7500e-003	0.0134	0.0000	107.9411	107.9411	1.0900e-003	0.0160	112.7247
Worker	0.0533	0.0395	0.5157	1.5000e-003	0.1806	8.6000e-004	0.1814	0.0479	7.9000e-004	0.0487	0.0000	139.0227	139.0227	3.4300e-003	3.6500e-003	140.1948
Total	0.0603	0.2595	0.6033	2.6200e-003	0.2211	2.6900e-003	0.2238	0.0596	2.5400e-003	0.0622	0.0000	246.9638	246.9638	4.5200e-003	0.0196	252.9195

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3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1671	1.5120	1.5950	2.7400e-003		0.0719	0.0719		0.0675	0.0675	0.0000	234.3086	234.3086	0.0590	0.0000	235.7825
Total	0.1671	1.5120	1.5950	2.7400e-003		0.0719	0.0719		0.0675	0.0675	0.0000	234.3086	234.3086	0.0590	0.0000	235.7825

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9500e-003	0.2200	0.0876	1.1200e-003	0.0405	1.8300e-003	0.0424	0.0117	1.7500e-003	0.0134	0.0000	107.9411	107.9411	1.0900e-003	0.0160	112.7247
Worker	0.0533	0.0395	0.5157	1.5000e-003	0.1806	8.6000e-004	0.1814	0.0479	7.9000e-004	0.0487	0.0000	139.0227	139.0227	3.4300e-003	3.6500e-003	140.1948
Total	0.0603	0.2595	0.6033	2.6200e-003	0.2211	2.6900e-003	0.2238	0.0596	2.5400e-003	0.0622	0.0000	246.9638	246.9638	4.5200e-003	0.0196	252.9195

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3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	7.1000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0174	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.6000e-004	4.7100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2695	1.2695	3.0000e-005	3.0000e-005	1.2802
Total	4.9000e-004	3.6000e-004	4.7100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2695	1.2695	3.0000e-005	3.0000e-005	1.2802

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3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	7.1000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0174	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.6000e-004	4.7100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2695	1.2695	3.0000e-005	3.0000e-005	1.2802
Total	4.9000e-004	3.6000e-004	4.7100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2695	1.2695	3.0000e-005	3.0000e-005	1.2802

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3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.6343	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2900e-003	1.7000e-003	0.0221	6.0000e-005	7.7500e-003	4.0000e-005	7.7900e-003	2.0600e-003	3.0000e-005	2.0900e-003	0.0000	5.9666	5.9666	1.5000e-004	1.6000e-004	6.0169
Total	2.2900e-003	1.7000e-003	0.0221	6.0000e-005	7.7500e-003	4.0000e-005	7.7900e-003	2.0600e-003	3.0000e-005	2.0900e-003	0.0000	5.9666	5.9666	1.5000e-004	1.6000e-004	6.0169

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3.5 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.6343	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2900e-003	1.7000e-003	0.0221	6.0000e-005	7.7500e-003	4.0000e-005	7.7900e-003	2.0600e-003	3.0000e-005	2.0900e-003	0.0000	5.9666	5.9666	1.5000e-004	1.6000e-004	6.0169
Total	2.2900e-003	1.7000e-003	0.0221	6.0000e-005	7.7500e-003	4.0000e-005	7.7900e-003	2.0600e-003	3.0000e-005	2.0900e-003	0.0000	5.9666	5.9666	1.5000e-004	1.6000e-004	6.0169

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2790	1.8352	3.4697	0.0151	1.0745	0.0203	1.0948	0.2903	0.0193	0.3096	0.0000	1,431.9157	1,431.9157	0.0389	0.1407	1,474.8030
Unmitigated	0.3289	2.2887	4.3373	0.0195	1.4007	0.0264	1.4270	0.3784	0.0251	0.4035	0.0000	1,852.3318	1,852.3318	0.0482	0.1804	1,907.2999

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	460.66	460.66	460.66	3,584,027	2,749,304
Total	460.66	460.66	460.66	3,584,027	2,749,304

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	40.00	73.00	0.00	27.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Non-Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Unrefrigerated Warehouse-No Rail	0.420472	0.044042	0.135720	0.110853	0.035298	0.009702	0.056000	0.169000	0.000000	0.000000	0.018912	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	108.7138	108.7138	9.1800e-003	1.1100e-003	109.2746
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	108.7138	108.7138	9.1800e-003	1.1100e-003	109.2746
Natural Gas Mitigated	2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.2992	27.2992	5.2000e-004	5.0000e-004	27.4614
Natural Gas Unmitigated	2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.2992	27.2992	5.2000e-004	5.0000e-004	27.4614

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	511567	2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.2992	27.2992	5.2000e-004	5.0000e-004	27.4614
Total		2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.2992	27.2992	5.2000e-004	5.0000e-004	27.4614

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	511567	2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.2992	27.2992	5.2000e-004	5.0000e-004	27.4614
Total		2.7600e-003	0.0251	0.0211	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.2992	27.2992	5.2000e-004	5.0000e-004	27.4614

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22540	3.9974	3.4000e-004	4.0000e-005	4.0180
Unrefrigerated Warehouse-No Rail	590466	104.7164	8.8400e-003	1.0700e-003	105.2566
Total		108.7138	9.1800e-003	1.1100e-003	109.2746

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22540	3.9974	3.4000e-004	4.0000e-005	4.0180
Unrefrigerated Warehouse-No Rail	590466	104.7164	8.8400e-003	1.0700e-003	105.2566
Total		108.7138	9.1800e-003	1.1100e-003	109.2746

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0617	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127
Unmitigated	1.0617	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127
Total	1.0617	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127
Total	1.0617	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0119	0.0119	3.0000e-005	0.0000	0.0127

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Use Water Efficient Irrigation System

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	123.6656	1.5434	0.0373	173.3783
Unmitigated	154.5821	1.9293	0.0467	216.7228

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	58.8554 / 0	154.5821	1.9293	0.0467	216.7228
Total		154.5821	1.9293	0.0467	216.7228

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	47.0844 / 0	123.6656	1.5434	0.0373	173.3783
Total		123.6656	1.5434	0.0373	173.3783

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.1409	0.7175	0.0000	30.0785
Unmitigated	48.5636	2.8700	0.0000	120.3142

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	239.24	48.5636	2.8700	0.0000	120.3142
Total		48.5636	2.8700	0.0000	120.3142

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	59.81	12.1409	0.7175	0.0000	30.0785
Total		12.1409	0.7175	0.0000	30.0785

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number
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11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	119.6520	0.0000	0.0000	119.6520

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	169	119.6520	0.0000	0.0000	119.6520
Total		119.6520	0.0000	0.0000	119.6520

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2022	HHDT	Aggregate	Aggregate	Gasoline	93.77521787	1876.254559	0	1.271766939	1271.766939	1998484.407	4872.85011	11739264.89	5.87	HHDT
South Coast	2022	HHDT	Aggregate	Aggregate	Diesel	86344.61493	1308488.279	0	1883.165573	1883165.573		11080949.98			
South Coast	2022	HHDT	Aggregate	Aggregate	Natural Gas	9530.013799	64445.55712	0	114.0470669	114047.0669		653442.0558			
South Coast	2022	LDA	Aggregate	Aggregate	Gasoline	5432984.929	25333114.49	0	7742.158581	7742158.581	7863292.337	217937990	233491817.2	29.69	LDA
South Coast	2022	LDA	Aggregate	Aggregate	Diesel	16596.66266	70061.62945	0	12.98213336	12982.13336		525055.9524			
South Coast	2022	LDA	Aggregate	Aggregate	Electricity	204269.3588	1027049.78	3533212.262	0	0		9151442.882			
South Coast	2022	LDA	Aggregate	Aggregate	Plug-in Hybrid	123066.1719	508878.6208	856005.7326	108.1516236	108151.6236		5877328.413			
South Coast	2022	LDT1	Aggregate	Aggregate	Gasoline	508118.9525	2234897.36	0	772.6742907	772674.2907	773091.3918	18186231.22	18233327.62	23.58	LDT1
South Coast	2022	LDT1	Aggregate	Aggregate	Diesel	219.3543012	650.4955004	0	0.181276274	181.2762739		4217.627426			
South Coast	2022	LDT1	Aggregate	Aggregate	Electricity	860.4090968	3929.280026	11231.02673	0	0		29089.70421			
South Coast	2022	LDT1	Aggregate	Aggregate	Plug-in Hybrid	262.0628223	1083.629777	2172.476691	0.2358249	235.8249004		13789.07098			
South Coast	2022	LDT2	Aggregate	Aggregate	Gasoline	2380478.996	11180656.67	0	4304.779926	4304779.926	4326812.467	97358601.17	97676672.01	22.57	LDT2
South Coast	2022	LDT2	Aggregate	Aggregate	Diesel	7265.359325	35160.20236	0	10.4792726	10479.2726		318070.8386			
South Coast	2022	LDT2	Aggregate	Aggregate	Electricity	6619.441536	34120.34272	95194.32476	0	0		246564.7012			
South Coast	2022	LDT2	Aggregate	Aggregate	Plug-in Hybrid	12770.05734	52804.18709	99473.18925	11.55326881	11553.26881		651602.4969			
South Coast	2022	LHDT1	Aggregate	Aggregate	Gasoline	200207.0512	2982786.755	0	596.2532604	596253.2604	791494.8201	7670055.089	11609061.87	14.67	LHDT1
South Coast	2022	LHDT1	Aggregate	Aggregate	Diesel	95425.65716	1200334.722	0	195.2415597	195241.5597		3939006.782			
South Coast	2022	LHDT2	Aggregate	Aggregate	Gasoline	31310.70271	466482.8175	0	100.8426005	100842.6005	201968.3332	1148331.498	2852151.512	14.12	LHDT2
South Coast	2022	LHDT2	Aggregate	Aggregate	Diesel	41221.34914	518512.7157	0	101.1257327	101125.7327		1703820.013			
South Coast	2022	MCY	Aggregate	Aggregate	Gasoline	232866.3127	465732.6253	0	36.03993715	36039.93715	36039.93715	1478622.183	1478622.183	41.03	MCY
South Coast	2022	MDV	Aggregate	Aggregate	Gasoline	1546490.389	7140651.876	0	3192.182291	3192182.291	3233168.731	58964077.19	60366385.9	18.67	MDV
South Coast	2022	MDV	Aggregate	Aggregate	Diesel	19342.84345	91596.79576	0	34.03297982	34032.97982		777527.7955			
South Coast	2022	MDV	Aggregate	Aggregate	Electricity	6696.74782	34502.63749	96159.45426	0	0		249064.5022			
South Coast	2022	MDV	Aggregate	Aggregate	Plug-in Hybrid	8117.761373	33566.94328	55475.93063	6.953460429	6953.460429		375716.4182			
South Coast	2022	MH	Aggregate	Aggregate	Gasoline	31850.36852	3186.310866	0	60.85222666	60852.22666	71928.89964	295792.8678	407742.3745	5.67	MH
South Coast	2022	MH	Aggregate	Aggregate	Diesel	11356.53565	1135.653565	0	11.07667298	11076.67298		111949.5066			
South Coast	2022	MHDT	Aggregate	Aggregate	Gasoline	26007.04178	520348.8919	0	274.1467882	274146.7882	819392.7308	1387695.111	6218651.542	7.59	MHDT
South Coast	2022	MHDT	Aggregate	Aggregate	Diesel	111240.7041	1363402.45	0	537.3888811	537388.8811		4766318.794			
South Coast	2022	MHDT	Aggregate	Aggregate	Natural Gas	1338.762023	12270.86005	0	7.857061417	7857.061417		64637.63673			
South Coast	2022	OBUS	Aggregate	Aggregate	Gasoline	5619.001977	112424.9916	0	46.10429672	46104.29672	82591.31041	229489.8627	490521.1159	5.94	OBUS
South Coast	2022	OBUS	Aggregate	Aggregate	Diesel	2896.768075	36743.40436	0	32.79511564	32795.11564		229036.0369			
South Coast	2022	OBUS	Aggregate	Aggregate	Natural Gas	537.7361163	4785.851433	0	3.691898056	3691.898056		31995.21632			
South Coast	2022	SBUS	Aggregate	Aggregate	Gasoline	2656.068282	10624.27313	0	13.13398403	13133.98403	40315.41184	115961.1562	260029.2373	6.45	SBUS
South Coast	2022	SBUS	Aggregate	Aggregate	Diesel	3463.174133	50146.76145	0	9.812107071	9812.107071		71631.6642			
South Coast	2022	SBUS	Aggregate	Aggregate	Natural Gas	2857.078854	41370.50181	0	17.36932074	17369.32074		72436.41685			
South Coast	2022	UBUS	Aggregate	Aggregate	Gasoline	892.5609011	3570.243605	0	14.15154342	14151.54342	205291.0561	96764.45551	693436.26	3.38	UBUS
South Coast	2022	UBUS	Aggregate	Aggregate	Diesel	15.79905129	63.19620517	0	0.277029151	277.0291511		1863.133553			
South Coast	2022	UBUS	Aggregate	Aggregate	Electricity	58.06621632	232.2648653	5333.126445	0	0		2542.871299			
South Coast	2022	UBUS	Aggregate	Aggregate	Natural Gas	4946.181814	19784.72726	0	190.8624835	190862.4835		592265.7996			

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2023	HHDT	Aggregate	Aggregate	Gasoline	77.76705152	1555.963167	0	1.13577086	1135.77086	1902570.073	4463.059823	11350616.67	5.97	HHDT
South Coast	2023	HHDT	Aggregate	Aggregate	Diesel	88939.48335	1354183.938	0	1901.434302	1901434.302		11341687.62			
South Coast	2023	HHDT	Aggregate	Aggregate	Electricity	69.55210742	1090.269168	7969.44745	0	0	0	4465.990707			
South Coast	2023	HHDT	Aggregate	Aggregate	Natural Gas	9734.51825	62334.09461	0	108.4243363	108424.3363	7680508.917	635905.4264	228542169.3	29.76	LDA
South Coast	2023	LDA	Aggregate	Aggregate	Gasoline	5370115.979	25014254.84	0	7560.140191	7560140.191		216250190.4			
South Coast	2023	LDA	Aggregate	Aggregate	Diesel	15648.45784	65526.69936	0	11.94439033	11944.39033		486634.8854			
South Coast	2023	LDA	Aggregate	Aggregate	Electricity	241152.5368	1208859.723	4312325.17	0	0	0	11169438.62			
South Coast	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	136333.5236	563739.1202	971420.6342	116.5989322	116598.9322	870253.2499	6496196.814	24547955.06	28.21	LDT1
South Coast	2023	LDT1	Aggregate	Aggregate	Gasoline	499113.9009	2195668.394	0	753.4930394	753493.0394		18009866.74			
South Coast	2023	LDT1	Aggregate	Aggregate	Diesel	197.6298759	575.4909742	0	0.161278255	161.278255		3756.265001			
South Coast	2023	LDT1	Aggregate	Aggregate	Electricity	1012.723437	4715.252993	14723.34847	0	0	0	38135.23576			
South Coast	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	463.9603347	1918.475984	3964.563568	0.400339089	400.3390888	4351441.574	24314.99018	100316975.8	23.05	LDT2
South Coast	2023	LDT2	Aggregate	Aggregate	Gasoline	2429950.117	11422828.59	0	4340.074795	4340074.795		100292660.9			
South Coast	2023	LDT2	Aggregate	Aggregate	Diesel	7734.815855	37335.71589	0	10.96643985	10966.43985		337920.5463			
South Coast	2023	LDT2	Aggregate	Aggregate	Electricity	11160.73812	57317.98395	159502.5609	0	0	0	413130.7341			
South Coast	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	17128.65814	70827.00142	136848.0138	14.88755019	14887.55019	604831.9262	867992.1123	8688662.767	14.37	LHDT1
South Coast	2023	LHDT1	Aggregate	Aggregate	Gasoline	200398.3929	2985637.46	0	589.944376	589944.376		7820670.654			
South Coast	2023	LHDT1	Aggregate	Aggregate	Diesel	99896.36028	1256570.543	0	206.0356758	206035.6758	305180.3742	4194656.56	5351327.632	17.53	LHDT2
South Coast	2023	LHDT2	Aggregate	Aggregate	Gasoline	31213.47663	465034.2937	0	99.14469838	99144.69838		1156671.072			
South Coast	2023	LHDT2	Aggregate	Aggregate	Diesel	43691.53059	549584.4908	0	107.1632097	107163.2097	107163.2097	1828609.129	1828609.129	17.06	MCY
South Coast	2023	MCY	Aggregate	Aggregate	Gasoline	237586.076	475172.1521	0	36.88140998	36881.40998	3258846.142	1522726.619	62822547.87	19.28	MDV
South Coast	2023	MDV	Aggregate	Aggregate	Gasoline	1559902.035	7210563.701	0	3188.051046	3188051.046		60070040.07			
South Coast	2023	MDV	Aggregate	Aggregate	Diesel	19613.50466	92462.53217	0	33.91368569	33913.68569		784655.9403			
South Coast	2023	MDV	Aggregate	Aggregate	Electricity	12017.75416	61732.39119	171855.0799	0	0	0	445125.2375			
South Coast	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	10053.44096	41570.97836	70940.44124	8.322835871	8322.835871	67468.7074	464374.4805	752062.2021	11.15	MH
South Coast	2023	MH	Aggregate	Aggregate	Gasoline	30468.55432	3048.074174	0	59.14587153	59145.87153		287687.7216			
South Coast	2023	MH	Aggregate	Aggregate	Diesel	11533.11741	1153.311741	0	11.30112611	11301.12611	819648.6117	114141.8155	6302753.398	7.69	MHDT
South Coast	2023	MHDT	Aggregate	Aggregate	Gasoline	25436.77287	508938.9517	0	266.1846594	266184.6594		1361855.942			
South Coast	2023	MHDT	Aggregate	Aggregate	Diesel	112753.1691	1384256.954	0	542.1628262	542162.8262		4826755.64			
South Coast	2023	MHDT	Aggregate	Aggregate	Electricity	60.14211345	769.7741807	1354.591964	0	0	52048.54694	1295.841104	289973.7428	5.57	OBUS
South Coast	2023	MHDT	Aggregate	Aggregate	Natural Gas	1405.746156	12603.45034	0	8.268140472	8268.140472		68507.0989			
South Coast	2023	OBUS	Aggregate	Aggregate	Gasoline	5457.340752	109190.4738	0	43.78040647	43780.40647		220170.8028			
South Coast	2023	OBUS	Aggregate	Aggregate	Diesel	2949.128306	37294.91051	0	33.32983706	33329.83706	50038.16004	233227.1381	381057.5339	7.62	SBUS
South Coast	2023	OBUS	Aggregate	Aggregate	Natural Gas	467.0036657	4156.332625	0	3.280062265	3280.062265		28665.48863			
South Coast	2023	SBUS	Aggregate	Aggregate	Gasoline	2711.533402	10846.13361	0	13.42826072	13428.26072		119164.9071			
South Coast	2023	SBUS	Aggregate	Aggregate	Diesel	3377.128927	48900.82686	0	9.464602039	9464.602039	41441.52119	69271.73995	241028.6401	5.82	UBUS
South Coast	2023	SBUS	Aggregate	Aggregate	Electricity	3.674682915	53.20940862	49.36713892	0	0	0	42.69400814			
South Coast	2023	SBUS	Aggregate	Aggregate	Natural Gas	2976.329163	43097.24627	0	17.80624767	17806.24767		74753.64709			
South Coast	2023	UBUS	Aggregate	Aggregate	Gasoline	894.3697717	3577.479087	0	14.17067148	14170.67148		96960.55907			
South Coast	2023	UBUS	Aggregate	Aggregate	Diesel	14.61165815	58.44663261	0	0.262644403	262.644403		1749.021883			
South Coast	2023	UBUS	Aggregate	Aggregate	Electricity	58.03212573	232.1285029	5326.224873	0	0	0	2539.586791			
South Coast	2023	UBUS	Aggregate	Aggregate	Natural Gas	4957.576963	19830.30785	0	190.2775974	190277.5974		593592.4153			



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