



**Appendix A**

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

**Ganddini Group**

**August 26, 2021**

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

City of Perris

August 26, 2021



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

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

City of Perris

August 26, 2021

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Project No. 19370

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## EXECUTIVE SUMMARY

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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 West 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 MTCO<sub>2</sub>e 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 West 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

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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 20.14-acre project site is located along the west side 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 330,447 square foot warehouse building with an additional 4,000 square foot mezzanine totaling 334,447 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. The proposed project is anticipated to be constructed and fully operational by year 2023. Figure 2 illustrates the proposed site plan.

## PHASING AND TIMING

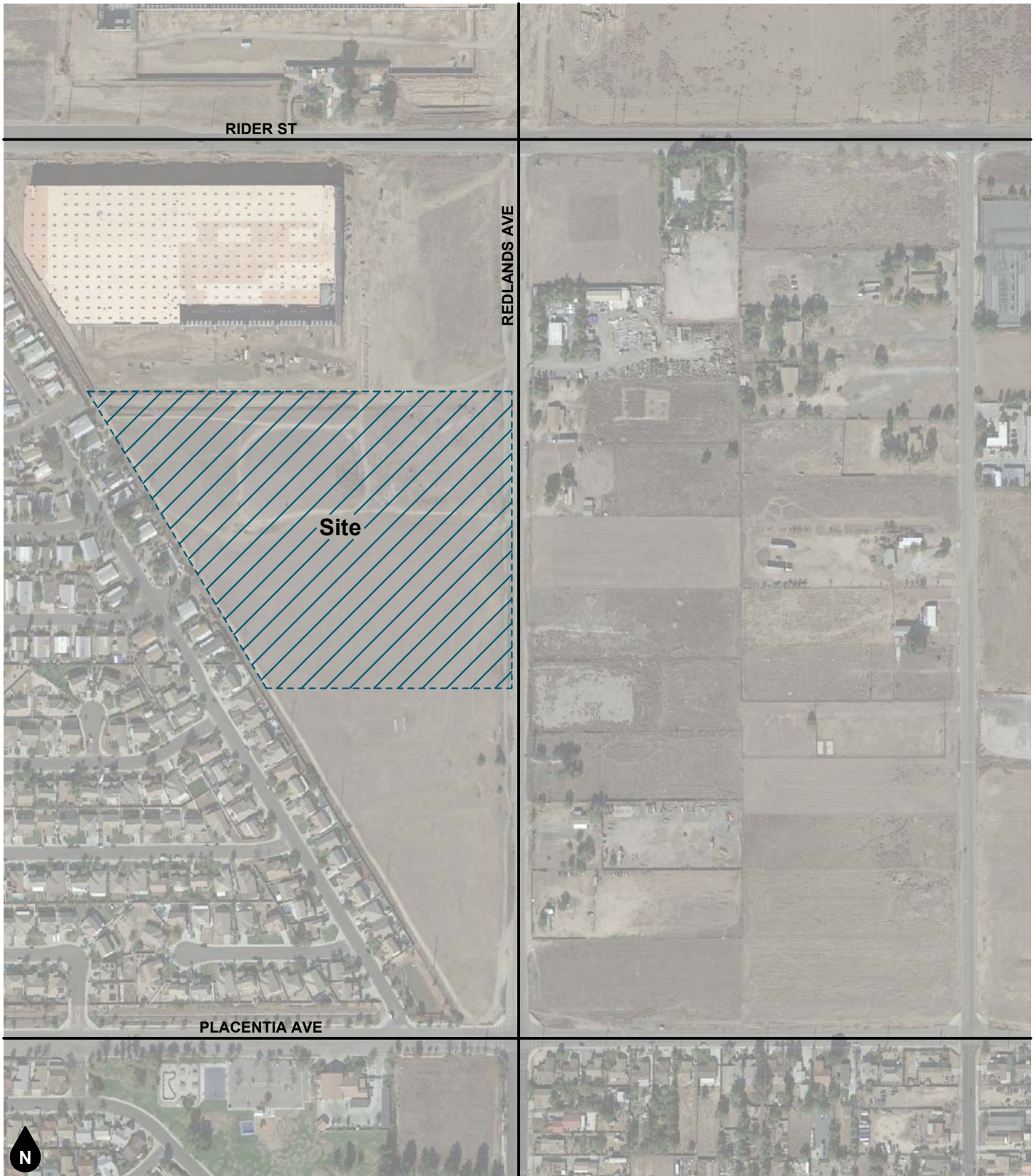
The proposed project is anticipated for opening in 2023. The project is anticipated to be built in one phase with project construction anticipated to start no sooner than the beginning of May 2022 with completion estimated by the beginning of February 2023.

## SENSITIVE RECEPTORS IN PROJECT VICINITY

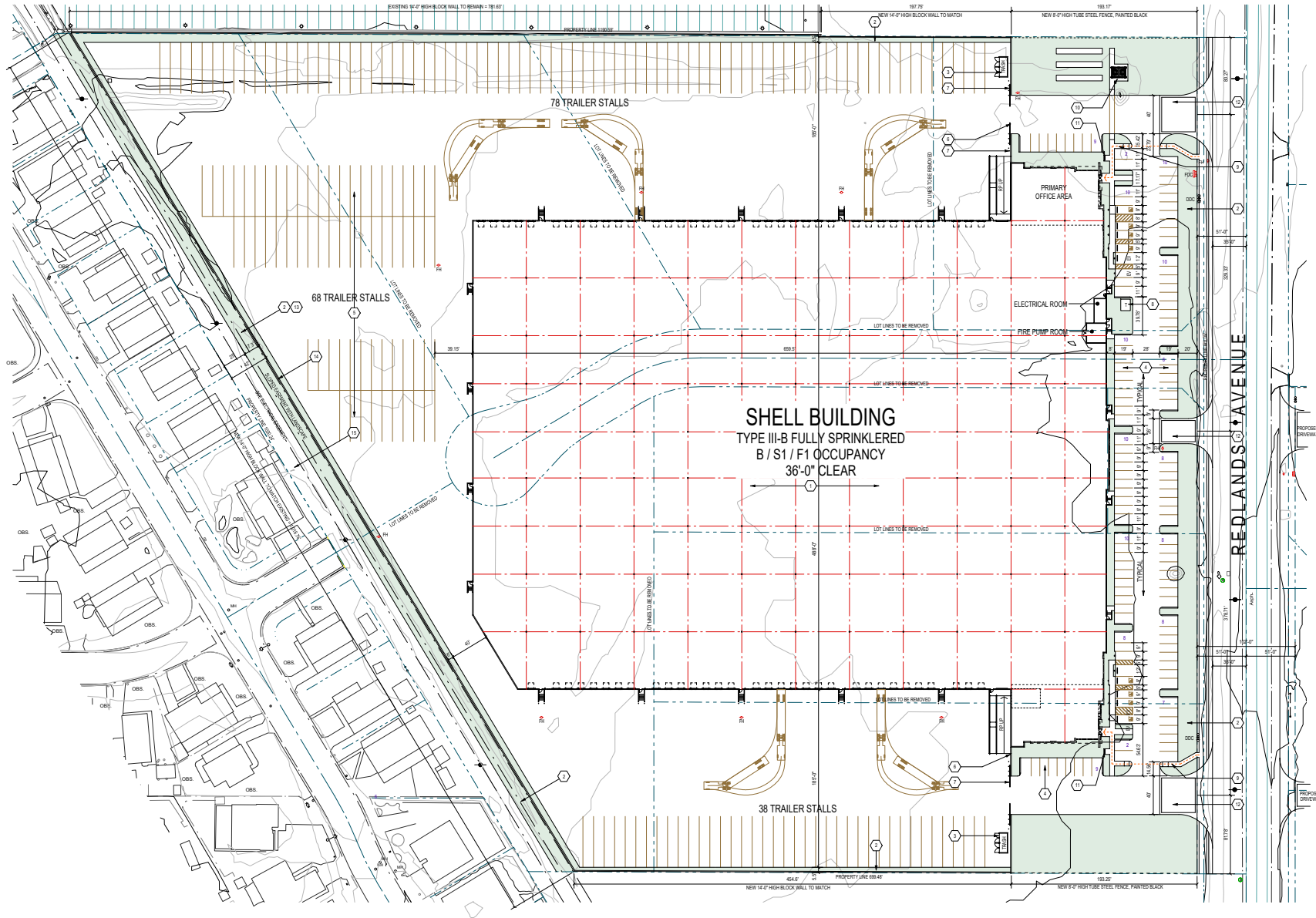
Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, 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 and mobile home park located adjacent to the west, the single-family residential uses located approximately 80 feet to the east and 335 feet southeast (across Redlands Avenue), and the single-family residential uses located approximately 780 feet north (north of Rider Street) of the project site.



**Figure 1**  
**Project Location Map**



**Figure 2**  
**Site Plan**



## 2. AIR QUALITY ANALYSIS

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### 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<sub>x</sub>) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NO<sub>x</sub> are colorless and odorless, concentrations of nitrogen dioxide (NO<sub>2</sub>) can often be seen as a reddish-brown layer over many urban areas. NO<sub>x</sub> form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NO<sub>x</sub> are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NO<sub>x</sub> reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO<sub>2</sub>, which cause respiratory problems. NO<sub>x</sub> and the pollutants formed from NO<sub>x</sub> can be transported over long distances, following the patterns of prevailing winds. Therefore, controlling NO<sub>x</sub> is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

### *Ozone*

Ozone (O<sub>3</sub>) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NO<sub>x</sub> 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<sub>x</sub>) gases (including sulfur dioxide [SO<sub>2</sub>]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SO<sub>x</sub> dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

#### *Lead*

Lead (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 (PM<sub>10</sub>) 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<sub>2.5</sub>) have been designated as a subset of PM<sub>10</sub> 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 PM<sub>10</sub> 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<sub>2.5</sub> 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 chance of cancer. 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 chance of cancer.

### *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<sub>2.5</sub> standard is met if the three-year average of the annual average PM<sub>2.5</sub> 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 (O<sub>3</sub>) and suspended particulates (PM<sub>10</sub> and PM<sub>2.5</sub>). Currently, the Basin is in attainment with the ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide (SO<sub>2</sub>), suspended particulate matter (PM-2.5), and nitrogen dioxide (NO<sub>2</sub>).

### **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 barbeque 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<sub>x</sub>) 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 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 PM<sub>10</sub> 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 PM<sub>10</sub> 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.

#### 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 website<sup>1</sup>. 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 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.

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<sup>1</sup> <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>.



## **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 <sub>3</sub> )	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 <sub>2</sub> )	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 <sub>2</sub> )	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 <sub>10</sub> )	50 µg/m <sup>3</sup> /24-hour 20 µg/m <sup>3</sup> /annual	150 µg/m <sup>3</sup> /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 <sub>2.5</sub> )	12 µg/m <sup>3</sup> / annual	35 µg/m <sup>3</sup> /24-hour 12 µg/m <sup>3</sup> /annual	
Sulfates	25 µg/m <sup>3</sup> /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 <sup>3</sup> /30-day	0.15 µg/m <sup>3</sup> /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: <http://www3.epa.gov/climatechange/ghgemissions/gases.html>

**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<sub>x</sub> emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM<sub>2.5</sub>, with another 13 percent of PM<sub>2.5</sub> 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 2.66 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 located approximately 12.12 miles southwest of the project site at 506 W Flint Street, Lake Elsinore was also utilized. 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 2017 through 2019 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 2017 to 2019 monitoring period, the State 1-hour concentration standard for ozone was exceeded between 28 and 33 days each year at the Perris Station. The State 8-hour ozone standard has been exceeded between 66 and 86 days each year over the past three years at the Perris Station. The Federal 8-hour ozone standard was exceeded between 64 and 80 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 NO<sub>2</sub>, 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 NO<sub>2</sub> standards for the last three years.

### **Particulate Matter**

The State 24-hour concentration standards for PM<sub>10</sub> were exceeded between two and 11 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 PM<sub>10</sub>.

There was insufficient data over the last three years for the Federal 24-hour standard for PM2.5 at the Lake Elsinore Station.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). 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 PM2.5. 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) <sup>1</sup>		Year		
		2017	2018	2019
Ozone:	Maximum 1-Hour Concentration (ppm)	0.120	0.117	0.118
	Days > CAAQS (0.09 ppm)	<b>33</b>	<b>31</b>	<b>28</b>
	Maximum 8-Hour Concentration (ppm)	0.106	0.103	0.096
	Days > NAAQS (0.070 ppm)	<b>80</b>	<b>67</b>	<b>64</b>
	Days > CAAQS (0.070 ppm)	<b>86</b>	<b>68</b>	<b>66</b>
Carbon Monoxide: <sup>2</sup>	Maximum 8-Hour Concentration (ppm)	*	*	*
	Days > CAAQS (9 ppm)	0	0	0
	Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide: <sup>2</sup>	Maximum 1-Hour Concentration (ppm)	0.049	0.041	0.038
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):	Maximum 24-Hour Concentration (µg/m <sup>3</sup> )	75.4	64.4	97.0
	Days > NAAQS (150 µg/m <sup>3</sup> )	0	0	0
	Days > CAAQS (50 µg/m <sup>3</sup> )	<b>11</b>	<b>2</b>	<b>4</b>
	Annual Average (µg/m <sup>3</sup> )	32.6	30.2	25.8
Ultra-Fine Particulates (PM2.5): <sup>2</sup>	Maximum 24-Hour Concentration (µg/m <sup>3</sup> )	27.2	31.3	17.6
	Days > NAAQS (35 µg/m <sup>3</sup> )	*	*	*
	Annual Average (µg/m <sup>3</sup> )	11.3	6.7	*

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.<sup>2</sup> 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.

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<sup>2</sup> 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.<sup>3</sup>

### **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 Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significant Threshold Methodology found that the primary emissions of concern are NO<sub>2</sub>, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of NO<sub>2</sub> 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 Significant Thresholds. Table 5 shows the ambient air quality standards for NO<sub>2</sub>, 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

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<sup>3</sup> 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 <sub>2</sub> e for industrial projects	
Ambient Air Quality Standards		
Pollutant	SCAQMD Standards	
NO <sub>2</sub> -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 <sub>2</sub>		
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 20.14 acres; construction of a 334,447 square foot warehouse building (with 4,000 square foot mezzanine) and 103,440 square feet of landscaping; paving of a parking lot with 127 automobile parking spaces and 184 trailer parking spaces and an additional approximately 7.38 acres for loading areas and driveways; and application of architectural coatings. See Appendix B for more details.

The proposed project is anticipated to start construction no sooner than early May 2022 with completion estimated by the beginning of February 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.<sup>4</sup>

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, stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move

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<sup>4</sup> South Coast Air Quality Management District, California Emissions Estimator Model, <http://www.aqmd.gov/caleemod/>.

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 20.14 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 and mobile home park located adjacent 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)<sup>5</sup> and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),<sup>6</sup> 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 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

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<sup>5</sup> 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>.

<sup>6</sup> 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>.

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 <sub>2</sub>	PM10	PM2.5
Grading	On-Site <sup>1</sup>	3.62	38.84	29.04	0.06	5.22	2.93
	Off-Site <sup>2</sup>	0.08	0.05	0.80	0.00	0.22	0.06
	Subtotal	3.70	38.90	29.84	0.06	5.45	2.99
Building Construction	On-Site <sup>1</sup>	2.90	26.19	26.50	0.05	1.32	1.25
	Off-Site <sup>2</sup>	1.70	7.44	16.92	0.06	5.19	1.47
	Subtotal	4.60	33.63	43.43	0.11	6.51	2.72
Paving	On-Site <sup>1</sup>	2.44	11.12	14.85	0.02	0.57	0.52
	Off-Site <sup>2</sup>	0.06	0.04	0.60	0.00	0.17	0.05
	Subtotal	2.50	11.16	15.45	0.02	0.74	0.57
Architectural Coating <sup>3</sup>	On-Site <sup>1</sup>	56.97	1.41	1.81	0.00	0.08	0.08
	Off-Site <sup>2</sup>	0.29	0.20	2.95	0.01	0.83	0.22
	Subtotal	57.26	1.60	4.76	0.01	0.91	0.30
Total for overlapping phases <sup>4</sup>		64.35	46.40	63.64	0.14	8.16	3.59
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 <sup>1</sup>	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	5.22	2.93
Building Construction	26.19	26.50	1.32	1.25
Paving	11.12	14.85	0.57	0.52
Architectural Coating	1.41	1.81	0.08	0.08
SCAQMD Thresholds <sup>1</sup>	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 and mobile home park located adjacent to the 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 West 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 605 vehicle trips per day (non-PCE) and 857 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 442 automobile round trips, 27 2-axle truck round trips, 34 3-axle truck round trips, and 102 4+-axle truck round trips per day (non-PCE). The vehicle mix for the trailer parking lot was changed in CalEEMod to match the TIA (see Table 9) and the percentages in CalEEMod were changed to 73% autos (C-NW) and 27% trucks (C-W) 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 County Metropolitan Transportation Authority 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 605 daily vehicle trips. The intersection with the highest traffic volume is located at Redlands Avenue and Rider Street and has an Opening Year (2023) Plus Project PM peak hour volume of 353 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 and mobile home park located adjacent 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 only 20.14 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.<sup>7</sup> 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.

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<sup>7</sup> The project site is approximately 0.28 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/25<sup>th</sup> of the shortest CalEEMod default distance of 6.9 miles. Therefore, to be conservative, 1/10<sup>th</sup> 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 <sup>1</sup>		CalEEMod Revised Mix <sup>2</sup>	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.535	324	0.420	254
Light Truck < 3750 lbs	Automobile	0.056	34	0.044	27
Light Truck 3751-5750 lbs	Automobile	0.173	104	0.136	82
Med Truck 5751-8500 lbs	Automobile	0.141	85	0.111	67
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.027	16	0.035	21
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.007	4	0.010	6
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.011	7	0.056	34
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.019	11	0.169	102
Other Bus	--	0.001	0	0.000	0
Urban Bus	--	0.000	0	0.000	0
Motorcycle	Automobile	0.024	15	0.019	11
School Bus	--	0.001	1	0.000	0
Motor Home	--	0.005	3	0.000	0
<b>Total</b>		<b>1.0</b>	<b>605</b>	<b>1.0</b>	<b>605</b>

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 <sup>1</sup>	7.72	0.00	0.08	0.00	0.00	0.00
Energy Usage <sup>2</sup>	0.02	0.18	0.15	0.00	0.01	0.01
Mobile Sources <sup>3</sup>	2.11	12.21	25.26	0.10	7.23	2.04
Total Emissions	9.85	12.39	25.49	0.10	7.25	2.06
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) <sup>1</sup>			
	NOx	CO	PM10	PM2.5
Area Sources <sup>2</sup>	0.00	0.08	0.00	0.00
Energy Usage <sup>3</sup>	0.18	0.15	0.01	0.01
Vehicle Emissions <sup>4</sup>	1.22	2.53	0.72	0.20
Total Emissions	1.40	2.75	0.74	0.22
SCAQMD Thresholds <sup>5</sup>	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 and mobile home park located adjacent to the 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;<sup>8</sup> 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.

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<sup>8</sup> 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 2016-2040 Regional Transportation/Sustainable Communities Strategy prepared by SCAG (2016) 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 334,447 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

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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.<sup>9</sup>

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 EMFAC2017 emissions factor model. Truck mix information was obtained from the Redlands Avenue West 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 605 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, 442 are automobile round trips, 27 are 2-axle truck round trips, 34 are 3-axle truck round trips, and 102 are 4+-axle truck round trips per day (non-passenger car equivalents).

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<sup>9</sup> 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 EMFAC2017 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 and mobile home park located adjacent to the west, the single-family residential uses located approximately 80 feet to the east and 335 feet southeast (across Redlands Avenue), and the single-family residential uses located approximately 780 feet north (north of Rider Street) of the project site). Residential receptors are shown as orange triangles labeled 1 through 7. 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 2, with a maximum risk of 0.84 in one million. The highest infant cancer risk 0-2 years is also at receptor 2; with a maximum risk of 0.82 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 1.79 in a million at receptor location 2, as shown in Table 19. Therefore, 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 2023-2053, the resulting Hazard Index is:

$$\text{HIDPM} = 0.00254/5 = 0.0005$$

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	14-Year Average (First 14 years of Operation - 2024-2037)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.79348	0.03822	0.01657
Medium Heavy Duty Truck	0.01881	0.00501	0.00387
Heavy Heavy Duty Truck	0.01113	0.01049	0.00853

Vehicle Class	14-Year Average (Second 14 years of Operation - 2038-2051)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.79386	0.02939	0.01440
Medium Heavy Duty Truck	0.00786	0.00437	0.00368
Heavy Heavy Duty Truck	0.01017	0.00959	0.00810

Vehicle Class	2-Year Average (2022-2023)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.78735	0.05065	0.01953
Medium Heavy Duty Truck	0.09549	0.03406	0.01910
Heavy Heavy Duty Truck	0.01380	0.02424	0.01325

Vehicle Class	1-Year Average (Opening Year-2021)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.78639	0.05383	0.02026
Medium Heavy Duty Truck	0.24358	0.17489	0.06839
Heavy Heavy Duty Truck	0.02224	0.07840	0.03670

Notes:

Source: EMFAC2017.

**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 (15th Ave from Eastern Project Driveway to Little Morongo, Southern Project Driveways along Atlantic Ave to Dillon Rd, Little Morongo from 15th Ave to Dillon Rd, Dillon Rd from Little Morongo to Indian Canyon Dr, Indian Canyon Dr south of Dillon Rd, Dillon Road from Atlantic Ave to Little Morongo, Little Morongo Rd north of 15th Ave, and Dillon Rd from Atlantic Ave to Palm Drive)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2017
On-Site Diesel Truck Traffic	Line Sources	Stack release height: 12 feet
		Vehicle speed: 10 mph
		Length of the line source (Northeastern project driveway to Southeastern project driveway (Street A), Northwestern project driveway to southwestern project driveway (Street B), Street C, Street D, and Street E)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2017
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 EMFAC2017		



**Table 14**  
**General Modeling Assumptions - AERMOD Model**

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 min
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	0.00165	1.7E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
2	0.00254	2.5E-06	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0005
3	0.0013	1.3E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
4	0.00135	1.4E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
5	0.00058	5.8E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
6	0.00078	7.8E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
7	0.00128	1.3E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003

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 <sub>(cancer)</sub> (days)	25550
Averaging Time <sub>(non-cancer)</sub> (days)	91.25

E = 10<sup>x</sup>, i.e. E-02 = 10<sup>-2</sup>

**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	0.00163	1.6E-06	1.00E+00	DPM	1.1E+00	0.54	5.0E+00	1.4E-03	0.0003
2	0.0025	2.5E-06	1.00E+00	DPM	1.1E+00	0.82	5.0E+00	1.4E-03	0.0005
3	0.00129	1.3E-06	1.00E+00	DPM	1.1E+00	0.42	5.0E+00	1.4E-03	0.0003
4	0.00133	1.3E-06	1.00E+00	DPM	1.1E+00	0.44	5.0E+00	1.4E-03	0.0003
5	0.00058	5.8E-07	1.00E+00	DPM	1.1E+00	0.19	5.0E+00	1.4E-03	0.0001
6	0.00078	7.8E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0002
7	0.00126	1.9E-04	1.00E+00	DPM	1.1E+00	0.41	5.0E+00	1.4E-03	0.0003

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 <sub>(cancer)</sub> (days)	25550
Averaging Time <sub>(non-cancer)</sub> (days)	730

E = 10<sup>x</sup>, i.e. E-02 = 10<sup>-2</sup>

**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	0.00153	1.5E-03	1.00E+00	DPM	1.1E+00	0.55	5.0E+00	1.4E-03	0.0003
2	0.00232	2.3E-03	1.00E+00	DPM	1.1E+00	0.84	5.0E+00	1.4E-03	0.0005
3	0.00123	1.2E-03	1.00E+00	DPM	1.1E+00	0.45	5.0E+00	1.4E-03	0.0002
4	0.00127	1.3E-03	1.00E+00	DPM	1.1E+00	0.46	5.0E+00	1.4E-03	0.0003
5	0.00055	5.5E-04	1.00E+00	DPM	1.1E+00	0.20	5.0E+00	1.4E-03	0.0001
6	0.00073	7.3E-04	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0001
7	0.0012	1.2E-03	1.00E+00	DPM	1.1E+00	0.43	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)	14
Daily Breathing Rate	572
Age Sensitivity Factor	3
Fraction of Time At Home (FAH)	1
Averaging Time <sub>(cancer)</sub> (days)	25550
Averaging Time <sub>(non-cancer)</sub> (days)	5110

E = 10<sup>x</sup>, i.e. E-02 = 10<sup>-2</sup>

**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	0.00149	1.5E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0003
2	0.00224	2.2E-06	1.00E+00	DPM	1.1E+00	0.09	5.0E+00	1.4E-03	0.0004
3	0.0012	1.2E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0002
4	0.00125	1.3E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0003
5	0.00053	5.3E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
6	0.00072	7.2E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
7	0.00118	1.2E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0002

Notes:

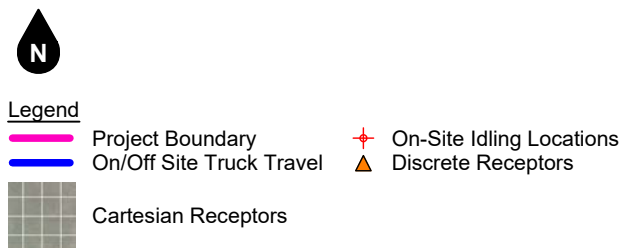
OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

E = 10<sup>x</sup>, i.e. E-02 = 10<sup>-2</sup>

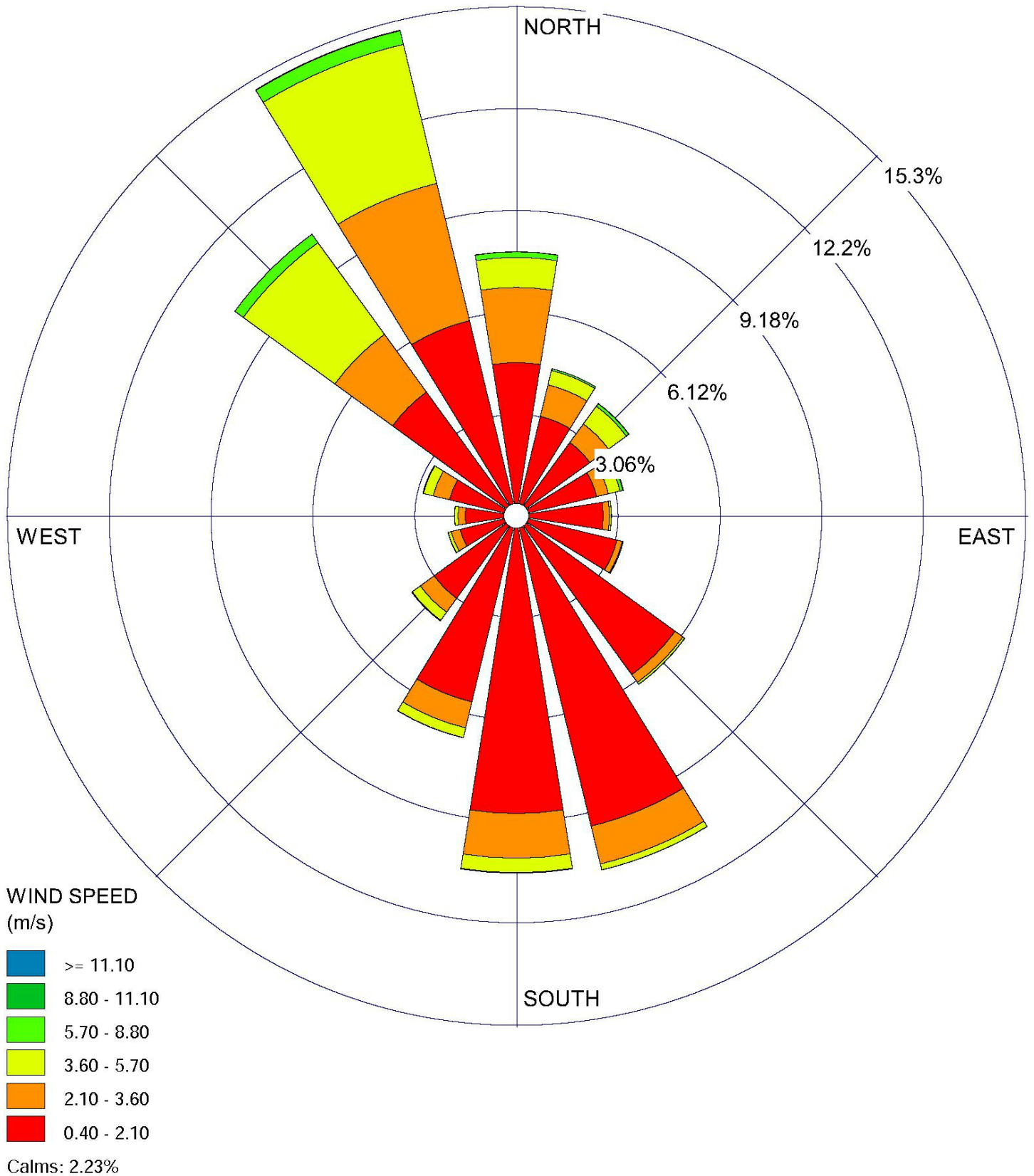
**Table 19**  
**Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario**

Receptor ID	Cumulative RISK (per million)
1	1.17
2	1.79
3	0.93
4	0.97
5	0.42
6	0.56
7	0.91



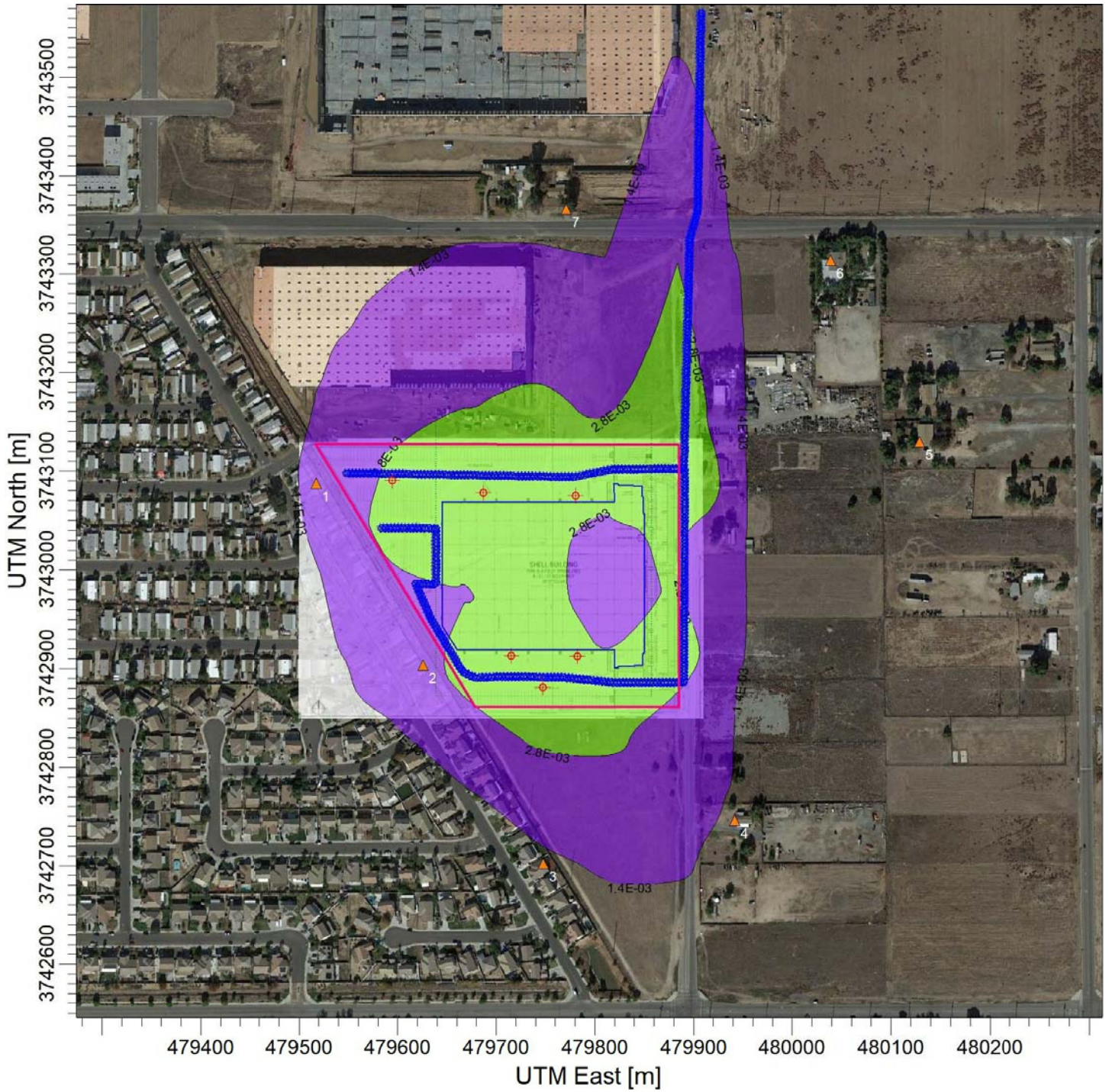
**Figure 3**  
**AERMOD Model Source and Receptor Placement**





**Figure 4**  
**Wind Rose: Perris**





**Figure 5**  
**Modeled Study Area Highest Annual DPM Emissions**



**Legend**  
 Child Cancer Risk (2-16 Years)

- 5 in a million
- 2 in a million
- 1 in a million
- 0.5 in a million

## 4. GLOBAL CLIMATE CHANGE ANALYSIS

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### 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 (CO<sub>2</sub>), methane (CH<sub>4</sub>), ozone, water vapor, nitrous oxide (N<sub>2</sub>O), 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 CO<sub>2</sub> and nitrous oxide (NO<sub>x</sub>) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO<sub>2</sub>, where CO<sub>2</sub> 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 (CO<sub>2</sub>)**

The natural production and absorption of CO<sub>2</sub> 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. CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 (CH<sub>4</sub>)**

CH<sub>4</sub> is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO<sub>2</sub>. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO<sub>2</sub>, N<sub>2</sub>O, and Chlorofluorocarbons (CFCs)). CH<sub>4</sub> 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 (N<sub>2</sub>O)**

Concentrations of N<sub>2</sub>O 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). N<sub>2</sub>O 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 (C<sub>2</sub>H<sub>6</sub>) 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 (CHF<sub>3</sub>), HFC-134a (CF<sub>3</sub>CH<sub>2</sub>F), and HFC-152a (CH<sub>3</sub>CHF<sub>2</sub>). 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 (CF<sub>4</sub>) and hexafluoroethane (C<sub>2</sub>F<sub>6</sub>). Concentrations of CF<sub>4</sub> in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.



## **Sulfur Hexafluoride (SF<sub>6</sub>)**

SF<sub>6</sub> is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF<sub>6</sub> has the highest global warming potential of any gas evaluated; 23,900 times that of CO<sub>2</sub>. 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 (CO<sub>2</sub>). The larger the GWP, the more that a given gas warms the Earth compared to CO<sub>2</sub> 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 <sup>1</sup> (100 Year Horizon)
Carbon Dioxide (CO <sub>2</sub> )	-- <sup>2</sup>	1
Methane (CH <sub>4</sub> )	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 <sub>3</sub> )	740	17,200
Sulfur Hexafluoride (SF <sub>6</sub> )	3,200	22,800

Notes:

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

- (1) Compared to the same quantity of CO<sub>2</sub> 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-CO<sub>2</sub> 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 CO<sub>2</sub> 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 (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, and SF<sub>6</sub>) 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.<sup>10</sup>

#### *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)<sup>11</sup> and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO<sub>2</sub> 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 CO<sub>2</sub> 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.<sup>12</sup> 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 CO<sub>2</sub> standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO<sub>2</sub> standards for model year 2020 are 43.7 mpg and 204 grams of CO<sub>2</sub> per mile for passenger cars and 31.3 mpg and 284 grams of CO<sub>2</sub> 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 CO<sub>2</sub>-equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.<sup>13</sup>

### **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

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<sup>10</sup> 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.

<sup>11</sup> 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.

<sup>12</sup> 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>.

<sup>13</sup> 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>.



[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. 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 CO<sub>2</sub> 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-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 CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, and SF<sub>6</sub> 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 MMTCO<sub>2e</sub> 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 MMTCO<sub>2e</sub> (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 MMTCO<sub>2e</sub>.

### *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 MMTCO<sub>2e</sub>. 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 MMTCO<sub>2e</sub>.

### *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.”<sup>14</sup> 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.

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

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<sup>14</sup> California Air Resources Board, California’s 2017 Climate Change Scoping Plan, November 2017, [https://www.arb.ca.gov/cc/scopingplan/scoping\\_plan\\_2017.pdf](https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf)

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/ft<sup>2</sup> (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.<sup>15</sup>

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.”<sup>16</sup> 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.

#### **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

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<sup>15</sup> 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>

<sup>16</sup> California Building Standards Commission, 2010 California Green Building Standards Code, (2010).

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 MTCO<sub>2e</sub> 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 MTCO<sub>2e</sub> per year
  - Based on land use type: residential: 3,500 MTCO<sub>2e</sub> per year; commercial: 1,400 MTCO<sub>2e</sub> per year; or mixed use: 3,000 MTCO<sub>2e</sub> per year.
  - Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 MTCO<sub>2e</sub> 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 MTCO<sub>2e</sub>/SP/year for projects and 6.6 MTCO<sub>2e</sub>/SP/year for plans;
  - Option 3, 2035 target: 3.0 MTCO<sub>2e</sub>/SP/year for projects and 4.1 MTCO<sub>2e</sub>/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 MMTCO<sub>2</sub>eq/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 MTCO<sub>2</sub>e 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<sub>2</sub>e 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 emissions<sup>17</sup>.

### **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<sub>2</sub>e per year for industrial uses.

## **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.

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<sup>17</sup> 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.

### *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 2,406.54 MTCO<sub>2</sub>e 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 MTCO<sub>2</sub>e 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 <sub>2</sub>	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Area Sources <sup>1</sup>	0.00	0.02	0.02	0.00	0.00	0.02
Energy Usage <sup>2</sup>	0.00	181.20	181.20	0.01	0.00	182.16
Mobile Sources <sup>3</sup>	0.00	1,701.31	1,701.31	0.05	0.17	1,752.49
Waste <sup>4</sup>	63.82	0.00	63.82	3.77	0.00	158.10
Water <sup>5</sup>	24.54	178.60	203.14	2.54	0.06	284.79
Construction <sup>6</sup>	0.00	28.53	28.53	0.00	0.00	28.98
<b>Total Emissions</b>	<b>88.35</b>	<b>2,089.66</b>	<b>2,178.02</b>	<b>6.37</b>	<b>0.23</b>	<b>2,406.54</b>
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 CO<sub>2</sub> and CH<sub>4</sub> 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 CO<sub>2</sub>e 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<sub>2e</sub> 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 2,406.54 MTCO<sub>2e</sub> per year, the project's GHG emissions do not exceed the SCAQMD threshold of 10,000 MTCO<sub>2e</sub> 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."<sup>18</sup> 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

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<sup>18</sup> 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),<sup>19</sup> 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 MTCO<sub>2</sub>e 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.

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<sup>19</sup> 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

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### 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 2019 included:

- Approximately 277,704 gigawatt hours of electricity;<sup>20</sup>
- Approximately 2,154,030 million cubic feet of natural gas per year;<sup>21</sup> and
- Approximately 23.2 billion gallons of transportation fuel (for the year 2015).<sup>22</sup>

As of 2018, 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 39.1 percent transportation;
- Approximately 23.5 percent industrial;
- Approximately 18.3 percent residential; and
- Approximately 19.2 percent commercial.<sup>23</sup>

California's electricity in-state generation system generates approximately 200,475 gigawatt-hours each year. In 2019, California produced approximately 72 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 9 percent) and the U.S. Southwest (approximately 19 percent). Natural gas is the main source for electricity generation at approximately 42.97 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.

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<sup>20</sup> California Energy Commission. Energy Almanac. Total Electric Generation. [Online] 2020. <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2019-total-system-electric-generation>.

<sup>21</sup> Natural Gas Consumption by End Use. U.S. Energy Information Administration. [Online] August 31, 2020. [https://www.eia.gov/dnav/ng/ng\\_cons\\_sum\\_dcu\\_SCA\\_a.htm](https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_SCA_a.htm).

<sup>22</sup> California Energy Commission. Revised Transportation Energy Demand Forecast 2018-2030. [Online] April 19, 2018. <https://www.energy.ca.gov/assessments/>

<sup>23</sup> 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<sup>24</sup>.

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.<sup>25</sup> 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.<sup>26</sup>

Table 23 identifies SCE's specific proportional shares of electricity sources in 2019. As shown in Table 23, the 2019 SCE Power Mix has renewable energy at 35 percent of the overall energy resources, of which biomass and waste is at 1 percent, geothermal is at 8 percent, eligible hydroelectric is at 1 percent, solar energy is at 16 percent, and wind power is at 12 percent; other energy sources include large hydroelectric at 8 percent, natural gas at 16 percent, nuclear at 8 percent and unspecified sources at 33 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."<sup>27</sup>

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<sup>24</sup> State Profile and Energy Estimates. Independent Statistics and Analysis. [Online] [Cited: January 16, 2020.] <http://www.eia.gov/state/?sid=CA#tabs2>.

<sup>25</sup> <https://www.sce.com/about-us/who-we-are/leadership/our-service-territory>

<sup>26</sup> California Energy Commission. Utility Energy Supply plans from 2015. [https://www.energy.ca.gov/almanac/electricity\\_data/supply\\_forms.html](https://www.energy.ca.gov/almanac/electricity_data/supply_forms.html)

<sup>27</sup> California Public Utilities Commission. Natural Gas and California. [http://www.cpuc.ca.gov/natural\\_gas/](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).<sup>28,29</sup> 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.<sup>30</sup> 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.<sup>31</sup>

## **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.<sup>32</sup>

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 CO<sub>2</sub> standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO<sub>2</sub> standards for model year 2020 are 43.7 mpg and 204 grams of CO<sub>2</sub> per mile for passenger cars and 31.3 mpg and 284 grams of CO<sub>2</sub> 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.<sup>33</sup>

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<sup>28</sup> CARB. California Greenhouse Gas Emissions Inventory – 2020 Edition. <https://www.arb.ca.gov/cc/inventory/data/data.htm>

<sup>29</sup> 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](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)

<sup>30</sup> 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](https://www.eia.gov/energyexplained/?page=us_energy_transportation)

<sup>31</sup> <https://www.eia.gov/tools/faqs/faq.php?id=23&t=10>

<sup>32</sup> <https://www.nhtsa.gov/lawsregulations/corporate-average-fuel-economy>.

<sup>33</sup> 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.<sup>34</sup>

### 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.

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<sup>34</sup> 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 3 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 CO<sub>2</sub> 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.<sup>15</sup> 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.<sup>35</sup>

#### *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.

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<sup>35</sup> California Air Resources Board, California's Advanced Clean Cars Program, January 18, 2017. [www.arb.ca.gov/msprog/acc/acc.htm](http://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 between the beginning of May 2022 and the beginning of February 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 20.14 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)<sup>36</sup>, 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 334,447 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 \$6,983.25.

#### *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:

- 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

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<sup>36</sup> Pray, Richard. 2017 National Construction Estimator. Carlsbad : Craftsman Book Company, 2017.

- Aggregate fuel consumption rate for all equipment was estimated at 18.5 hp-hr/day (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](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 44,669 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 all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 865,389 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 2017 EMFAC model (see Appendix D for details). An aggregate fuel efficiency of 30.95 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 26 shows that an estimated 27,961 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 150,075 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 9.22 mpg for medium heavy-duty trucks and 6.74 for heavy heavy-duty trucks (see Appendix D for details). Tables 27 and 28 show that an estimated 16,277 gallons of fuel would be consumed for vendor and hauling trips.

#### *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 40 miles and 3- 4-axle trucks were assumed to travel an average of 6.9 miles.<sup>37</sup> 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.<sup>38</sup>

The proposed project would generate 605 trips per day. The vehicle fleet mix was used from the CalEEMod output. Table 29 shows that an estimated 235,744 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 (20<sup>th</sup> Edition, 2017). 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 billion gallons of diesel and 15.1 billion gallons of gasoline in 2015.<sup>39,40</sup> 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

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<sup>37</sup> CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 16.6 miles (with customer based trips changed to 40 miles per SCAQMD recommendations); 6.9 miles for H-O (home-other) or C-O (commercial-other).

<sup>38</sup> Average fuel economy based on aggregate mileage calculated in EMFAC 2017 for opening year (2023). See Appendix C for EMFAC output.

<sup>39</sup> <https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-gasoline-data-facts-and-statistics>

<sup>40</sup> <https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/diesel-fuel-data-facts-and-statistics>

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 775,917 kWh per year. In 2019, the non-residential sector of the County of Riverside consumed approximately 8,183 million kWh of electricity.<sup>41</sup> In addition, the estimated natural gas consumption for the proposed project is approximately 672,238 kBtu per year. In 2019, the non-residential sector of the County of Riverside consumed approximately 148 million therms of gas.<sup>42</sup> Therefore, the increase in both electricity and natural gas demand from the proposed project is insignificant compared to the County's 2019 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 (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

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<sup>41</sup> California Energy Commission, Electricity Consumption by County. <https://ecdms.energy.ca.gov/elecbycounty.aspx>

<sup>42</sup> California Energy Commission, Gas Consumption by County. <http://ecdms.energy.ca.gov/gasbycounty.aspx>

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 conservations 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 2019)**

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	248	0.12%	219	7,765	7,985	10.34%	8,233	2.96%
Natural Gas	86,136	42.97%	62	8,859	8,921	11.55%	95,057	34.23%
Nuclear	16,163	8.06%	39	8,743	8,782	11.37%	24,945	8.98%
Oil	36	0.02%	0	0	0	0.00%	36	0.01%
Other (Petroleum Coke/Waste Heat)	411	0.20%	0	11	11	0.01%	422	0.15%
Large Hydro	33,145	16.53%	6,387	1,071	7,458	9.66%	40,603	14.62%
Unspecified Sources of Power	0	0.00%	6,609	13,767	20,376	26.38%	20,376	7.34%
Renewables	64,336	32.09%	10,615	13,081	23,696	30.68%	88,032	31.70%
Biomass	5,851	2.92%	903	33	936	1.21%	6,787	2.44%
Geothermal	10,943	5.46%	99	2,218	2,318	3.00%	13,260	4.77%
Small Hydro	5,349	2.67%	292	4	296	0.38%	5,646	2.03%
Solar	28,513	14.22%	282	5,295	5,577	7.22%	34,090	12.28%
Wind	13,680	6.82%	9,038	5,531	14,569	18.87%	28,249	10.17%
<b>Total</b>	<b>200,475</b>	<b>100.00%</b>	<b>23,930</b>	<b>53,299</b>	<b>77,229</b>	<b>100.00%</b>	<b>277,704</b>	<b>100.00%</b>

Notes:

(1) Source: California Energy Commission. 2019 Total System electric Generation. <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2019-total-system-electric-generation>

**Table 23**  
**SCE 2019 Power Content Mix**

Energy Resources	2019 SCE Power Mix
Eligible Renewable	35%
Biomass & Biowaste	1%
Geothermal	6%
Eligible Hydroelectric	1%
Solar	16%
Wind	12%
Coal	0%
Large Hydroelectric	8%
Natural Gas	16%
Nuclear	8%
Other	0%
Unspecified Sources of power*	33%
Total	100%

Notes:

(1) [https://www.sce.com/sites/default/files/inline-files/SCE\\_2019PowerContentLabel.pdf](https://www.sce.com/sites/default/files/inline-files/SCE_2019PowerContentLabel.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	334.447	9	\$6,983.25

**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) <sup>1</sup>
Grading	35	Excavator	2	8	158	0.38	961	1817
	35	Graders	1	8	187	0.41	613	1,160
	35	Rubber Tired Dozers	1	8	247	0.4	790	1,495
	35	Scrapers	2	8	367	0.48	2,819	5,332
	35	Tractors/Loaders/Backhoes	2	8	97	0.37	574	1,086
Building Construction	150	Cranes	2	7	231	0.29	938	7,604
	150	Forklifts	4	8	89	0.2	570	4,618
	150	Generator Sets	2	8	84	0.74	995	8,064
	150	Tractors/Loaders/Backhoes	4	7	97	0.37	1,005	8,148
	150	Welders	2	8	46	0.45	331	2,685
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)								44,669

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](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	35	20	14.7	10,290	30.95	332
Building Construction	150	371	14.7	818,055	30.95	26,432
Paving	20	15	14.7	4,410	30.95	142
Architectural Coating	30	74	14.7	32,634	30.95	1,054
Total Construction Worker Fuel Consumption						27,961

Notes:

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

**Table 27**  
**Construction Vendor Fuel Consumption Estimates (MHD Trucks)**

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Grading	35	0	6.9	0	9.22	0
Building Construction	150	145	6.9	150,075	9.22	16,277
Paving	20	0	6.9	0	9.22	0
Architectural Coating	30	0	6.9	0	9.22	0
Total Construction Vendor Fuel Consumption						16,277

Notes:

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

**Table 28**  
**Construction Hauling Fuel Consumption Estimates (HHD Trucks)<sup>1</sup>**

Phase	Number of Days	Total Hauling Trips	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Grading	35	0	20	0	6.74	0
Building Construction	150	0	20	0	6.74	0
Paving	20	0	20	0	6.74	0
Architectural Coating	30	0	20	0	6.74	0
Total Construction Hauling Fuel Consumption						0

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) <sup>1</sup>	Daily VMT	Average Fuel Economy (mpg)	Total Gallons per Day	Total Annual Fuel Consumption (gallons)
Light Auto	Automobile	254	40	10160	31.82	319.30	116,543
Light Truck	Automobile	27	40	1080	27.16	39.76	14,514
Light Truck	Automobile	82	40	3280	25.6	128.13	46,766
Medium Truck	Automobile	67	6.9	462	20.81	22.22	8,109
Light Heavy Truck	2-Axle Truck	21	6.9	145	13.81	10.49	3,830
Light Heavy Truck 10,000 lbs +	2-Axle Truck	6	6.9	41	14.18	2.92	1,066
Medium Heavy Truck	3-Axle Truck	34	6.9	235	9.58	24.49	8,938
Heavy Heavy Truck	4-Axle Truck	102	6.9	704	7.14	98.57	35,979
Total		605	--	16,107	12.38	645.87	--
Total Annual Fuel Consumption							235,744

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 <sup>1</sup>
Unrefrigerated Warehouse - No Rail	672,238
Total	672,238

Electricity Demand	kWh/year
Unrefrigerated Warehouse - No Rail	775,917
Parking Lot	43,540
Total	775,917

Notes:

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

## 6. EMISSIONS REDUCTION MEASURES

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### CONSTRUCTION MEASURES

*Adherence to SCAQMD Rule 403 is required.*

No construction mitigation is required.

### OPERATIONAL MEASURES

No operational mitigation is required.



## 7. REFERENCES

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### **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.

2019 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 West 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

2018 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**

2016 2016-2040 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

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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 <sub>4</sub>	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> 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 <sub>2</sub> e	Metric tons of carbon dioxide equivalent
MMTCO <sub>2</sub> e	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NO <sub>x</sub>	Nitrogen Oxides
NO <sub>2</sub>	Nitrogen dioxide
N <sub>2</sub> O	Nitrous oxide
O <sub>3</sub>	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM <sub>10</sub>	Particles that are less than 10 micrometers in diameter
PM <sub>2.5</sub>	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 <sub>6</sub>	Sulfur hexafluoride
SIP	State Implementation Plan
SO <sub>x</sub>	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

**APPENDIX B**

**CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS**

19370 Redlands Ave West 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**

**19370 Redlands Ave West 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	334.45	1000sqft	7.59	334,447.00	0
Other Asphalt Surfaces	7.38	Acre	7.38	321,472.80	0
Other Non-Asphalt Surfaces	103.44	1000sqft	2.37	103,440.00	0
Parking Lot	311.00	Space	2.80	124,400.00	0

**1.2 Other Project Characteristics**

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

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - 20.14 acres w/ 334.447 TSF warehouse (w/ 4 TSF mezzanine), 103.44 TSF landscaping, 127 auto spaces & 184 trailer parking spaces, & remainder site paving of on-site roadways/loading dock areas etc. (~7.38 ac).

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

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~60%; therefore, ~60% more equipment added to default CalEEMod equipment list for building construction.

Grading - Site anticipated to balance.

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

Sequestration - ~172 new trees per landscape plans.

19370 Redlands Ave West 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**

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site ~0.27 miles east of RTA Rte19 stop Perris FS Ensenada & ~3.03 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.

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

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	370.00	150.00
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
tblLandUse	LotAcreage	7.68	7.59
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00



19370 Redlands Ave West 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**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	172.00
tblVehicleTrips	CNW_TTP	41.00	73.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	27.00
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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19370 Redlands Ave West 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	64.3510	46.0288	63.3672	0.1443	9.4271	2.0842	11.0632	3.7130	1.9610	5.2182	0.0000	14,326.53 30	14,326.53 30	1.9493	0.5318	14,530.94 90
2023	61.4208	31.2079	46.3805	0.1175	5.9028	1.2836	7.1864	1.5866	1.2175	2.8040	0.0000	11,732.08 03	11,732.08 03	1.0957	0.5014	11,908.88 16
<b>Maximum</b>	<b>64.3510</b>	<b>46.0288</b>	<b>63.3672</b>	<b>0.1443</b>	<b>9.4271</b>	<b>2.0842</b>	<b>11.0632</b>	<b>3.7130</b>	<b>1.9610</b>	<b>5.2182</b>	<b>0.0000</b>	<b>14,326.53 30</b>	<b>14,326.53 30</b>	<b>1.9493</b>	<b>0.5318</b>	<b>14,530.94 90</b>

**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	64.3510	46.0288	63.3672	0.1443	6.0705	2.0842	8.1547	1.6310	1.9610	3.5920	0.0000	14,326.53 30	14,326.53 30	1.9493	0.5318	14,530.94 90
2023	61.4208	31.2079	46.3805	0.1175	5.9028	1.2836	7.1864	1.5866	1.2175	2.8040	0.0000	11,732.08 03	11,732.08 03	1.0957	0.5014	11,908.88 16
<b>Maximum</b>	<b>64.3510</b>	<b>46.0288</b>	<b>63.3672</b>	<b>0.1443</b>	<b>6.0705</b>	<b>2.0842</b>	<b>8.1547</b>	<b>1.6310</b>	<b>1.9610</b>	<b>3.5920</b>	<b>0.0000</b>	<b>14,326.53 30</b>	<b>14,326.53 30</b>	<b>1.9493</b>	<b>0.5318</b>	<b>14,530.94 90</b>

19370 Redlands Ave West 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	21.90	0.00	15.94	39.29	0.00	20.27	0.00	0.00	0.00	0.00	0.00	0.00

19370 Redlands Ave West 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	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
Energy	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
Mobile	2.1142	11.5244	25.2576	0.1017	7.1023	0.1323	7.2347	1.9160	0.1258	2.0419		10,627.3926	10,627.3926	0.2842	1.0097	10,935.3986
<b>Total</b>	<b>9.8491</b>	<b>11.7057</b>	<b>25.4864</b>	<b>0.1028</b>	<b>7.1023</b>	<b>0.1463</b>	<b>7.2487</b>	<b>1.9160</b>	<b>0.1398</b>	<b>2.0559</b>		<b>10,844.2345</b>	<b>10,844.2345</b>	<b>0.2888</b>	<b>1.0137</b>	<b>11,153.5389</b>

**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	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
Energy	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
Mobile	1.7937	8.8186	19.0006	0.0727	4.9996	0.0939	5.0934	1.3488	0.0893	1.4380		7,590.9964	7,590.9964	0.2176	0.7333	7,814.9625
<b>Total</b>	<b>9.5286</b>	<b>8.9999</b>	<b>19.2295</b>	<b>0.0738</b>	<b>4.9996</b>	<b>0.1079</b>	<b>5.1074</b>	<b>1.3488</b>	<b>0.1033</b>	<b>1.4520</b>		<b>7,807.8383</b>	<b>7,807.8383</b>	<b>0.2222</b>	<b>0.7373</b>	<b>8,033.1028</b>

19370 Redlands Ave West 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	3.25	23.12	24.55	28.27	29.61	26.28	29.54	29.61	26.16	29.37	0.00	28.00	28.00	23.06	27.27	27.98

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	5/1/2022	6/17/2022	5	35	
2	Building Construction	Building Construction	6/18/2022	1/15/2023	5	150	
3	Paving	Paving	12/5/2022	12/30/2022	5	20	
4	Architectural Coating	Architectural Coating	12/22/2022	2/1/2023	5	30	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 105**

**Acres of Paving: 12.55**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 501,671; Non-Residential Outdoor: 167,224; Striped Parking Area: 32,959 (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

19370 Redlands Ave West 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	2	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	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	371.00	145.00	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	74.00	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

19370 Redlands Ave West 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	0.0788	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
<b>Total</b>	<b>0.0788</b>	<b>0.0511</b>	<b>0.7973</b>	<b>2.0300e-003</b>	<b>0.2236</b>	<b>1.1100e-003</b>	<b>0.2247</b>	<b>0.0593</b>	<b>1.0300e-003</b>	<b>0.0603</b>		<b>206.7078</b>	<b>206.7078</b>	<b>5.1200e-003</b>	<b>5.0800e-003</b>	<b>208.3509</b>

19370 Redlands Ave West 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.5894</b>	<b>1.6349</b>	<b>5.2243</b>	<b>1.4250</b>	<b>1.5041</b>	<b>2.9291</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	0.0788	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
<b>Total</b>	<b>0.0788</b>	<b>0.0511</b>	<b>0.7973</b>	<b>2.0300e-003</b>	<b>0.2236</b>	<b>1.1100e-003</b>	<b>0.2247</b>	<b>0.0593</b>	<b>1.0300e-003</b>	<b>0.0603</b>		<b>206.7078</b>	<b>206.7078</b>	<b>5.1200e-003</b>	<b>5.0800e-003</b>	<b>208.3509</b>



19370 Redlands Ave West 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	2.8970	26.1891	26.5029	0.0454		1.3206	1.3206		1.2486	1.2486		4,285.4374	4,285.4374	0.9576		4,309.3784
<b>Total</b>	<b>2.8970</b>	<b>26.1891</b>	<b>26.5029</b>	<b>0.0454</b>		<b>1.3206</b>	<b>1.3206</b>		<b>1.2486</b>	<b>1.2486</b>		<b>4,285.4374</b>	<b>4,285.4374</b>	<b>0.9576</b>		<b>4,309.3784</b>

**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	0.2360	6.1315	2.1320	0.0264	0.9288	0.0884	1.0172	0.2674	0.0846	0.3520		2,797.7074	2,797.7074	0.0296	0.4149	2,922.0842
Worker	1.4621	0.9475	14.7902	0.0377	4.1469	0.0207	4.1676	1.0998	0.0190	1.1188		3,834.4301	3,834.4301	0.0950	0.0943	3,864.9086
<b>Total</b>	<b>1.6980</b>	<b>7.0790</b>	<b>16.9221</b>	<b>0.0641</b>	<b>5.0757</b>	<b>0.1091</b>	<b>5.1847</b>	<b>1.3672</b>	<b>0.1036</b>	<b>1.4708</b>		<b>6,632.1375</b>	<b>6,632.1375</b>	<b>0.1246</b>	<b>0.5092</b>	<b>6,786.9928</b>

19370 Redlands Ave West 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	2.8970	26.1891	26.5029	0.0454		1.3206	1.3206		1.2486	1.2486	0.0000	4,285.437 3	4,285.437 3	0.9576		4,309.378 4
<b>Total</b>	<b>2.8970</b>	<b>26.1891</b>	<b>26.5029</b>	<b>0.0454</b>		<b>1.3206</b>	<b>1.3206</b>		<b>1.2486</b>	<b>1.2486</b>	<b>0.0000</b>	<b>4,285.437 3</b>	<b>4,285.437 3</b>	<b>0.9576</b>		<b>4,309.378 4</b>

**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	0.2360	6.1315	2.1320	0.0264	0.9288	0.0884	1.0172	0.2674	0.0846	0.3520		2,797.707 4	2,797.707 4	0.0296	0.4149	2,922.084 2
Worker	1.4621	0.9475	14.7902	0.0377	4.1469	0.0207	4.1676	1.0998	0.0190	1.1188		3,834.430 1	3,834.430 1	0.0950	0.0943	3,864.908 6
<b>Total</b>	<b>1.6980</b>	<b>7.0790</b>	<b>16.9221</b>	<b>0.0641</b>	<b>5.0757</b>	<b>0.1091</b>	<b>5.1847</b>	<b>1.3672</b>	<b>0.1036</b>	<b>1.4708</b>		<b>6,632.137 5</b>	<b>6,632.137 5</b>	<b>0.1246</b>	<b>0.5092</b>	<b>6,786.992 8</b>

19370 Redlands Ave West 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857		4,286.5993	4,286.5993	0.9493		4,310.3306
<b>Total</b>	<b>2.6756</b>	<b>24.1630</b>	<b>26.2936</b>	<b>0.0454</b>		<b>1.1482</b>	<b>1.1482</b>		<b>1.0857</b>	<b>1.0857</b>		<b>4,286.5993</b>	<b>4,286.5993</b>	<b>0.9493</b>		<b>4,310.3306</b>

**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	0.1634	4.7373	1.9506	0.0253	0.9287	0.0413	0.9700	0.2674	0.0395	0.3069		2,686.4295	2,686.4295	0.0274	0.3970	2,805.4126
Worker	1.3555	0.8376	13.6104	0.0365	4.1469	0.0195	4.1664	1.0998	0.0179	1.1177		3,733.0132	3,733.0132	0.0852	0.0870	3,761.0808
<b>Total</b>	<b>1.5189</b>	<b>5.5748</b>	<b>15.5610</b>	<b>0.0618</b>	<b>5.0756</b>	<b>0.0607</b>	<b>5.1363</b>	<b>1.3672</b>	<b>0.0574</b>	<b>1.4246</b>		<b>6,419.4427</b>	<b>6,419.4427</b>	<b>0.1126</b>	<b>0.4840</b>	<b>6,566.4934</b>

19370 Redlands Ave West 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857	0.0000	4,286.5993	4,286.5993	0.9493		4,310.3306
<b>Total</b>	<b>2.6756</b>	<b>24.1630</b>	<b>26.2936</b>	<b>0.0454</b>		<b>1.1482</b>	<b>1.1482</b>		<b>1.0857</b>	<b>1.0857</b>	<b>0.0000</b>	<b>4,286.5993</b>	<b>4,286.5993</b>	<b>0.9493</b>		<b>4,310.3306</b>

**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	0.1634	4.7373	1.9506	0.0253	0.9287	0.0413	0.9700	0.2674	0.0395	0.3069		2,686.4295	2,686.4295	0.0274	0.3970	2,805.4126
Worker	1.3555	0.8376	13.6104	0.0365	4.1469	0.0195	4.1664	1.0998	0.0179	1.1177		3,733.0132	3,733.0132	0.0852	0.0870	3,761.0808
<b>Total</b>	<b>1.5189</b>	<b>5.5748</b>	<b>15.5610</b>	<b>0.0618</b>	<b>5.0756</b>	<b>0.0607</b>	<b>5.1363</b>	<b>1.3672</b>	<b>0.0574</b>	<b>1.4246</b>		<b>6,419.4427</b>	<b>6,419.4427</b>	<b>0.1126</b>	<b>0.4840</b>	<b>6,566.4934</b>

19370 Redlands Ave West 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 - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	1.3336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4364</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</b>

**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	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
<b>Total</b>	<b>0.0591</b>	<b>0.0383</b>	<b>0.5980</b>	<b>1.5200e-003</b>	<b>0.1677</b>	<b>8.4000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>155.0309</b>	<b>155.0309</b>	<b>3.8400e-003</b>	<b>3.8100e-003</b>	<b>156.2632</b>

19370 Redlands Ave West 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 - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	1.3336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4364</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</b>

**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	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
<b>Total</b>	<b>0.0591</b>	<b>0.0383</b>	<b>0.5980</b>	<b>1.5200e-003</b>	<b>0.1677</b>	<b>8.4000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>155.0309</b>	<b>155.0309</b>	<b>3.8400e-003</b>	<b>3.8100e-003</b>	<b>156.2632</b>

19370 Redlands Ave West 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 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.7643					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>56.9688</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.2916	0.1890	2.9501	7.5200e-003	0.8272	4.1200e-003	0.8313	0.2194	3.8000e-003	0.2232		764.8190	764.8190	0.0189	0.0188	770.8982
<b>Total</b>	<b>0.2916</b>	<b>0.1890</b>	<b>2.9501</b>	<b>7.5200e-003</b>	<b>0.8272</b>	<b>4.1200e-003</b>	<b>0.8313</b>	<b>0.2194</b>	<b>3.8000e-003</b>	<b>0.2232</b>		<b>764.8190</b>	<b>764.8190</b>	<b>0.0189</b>	<b>0.0188</b>	<b>770.8982</b>

19370 Redlands Ave West 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 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.7643					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>56.9688</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.2916	0.1890	2.9501	7.5200e-003	0.8272	4.1200e-003	0.8313	0.2194	3.8000e-003	0.2232		764.8190	764.8190	0.0189	0.0188	770.8982
<b>Total</b>	<b>0.2916</b>	<b>0.1890</b>	<b>2.9501</b>	<b>7.5200e-003</b>	<b>0.8272</b>	<b>4.1200e-003</b>	<b>0.8313</b>	<b>0.2194</b>	<b>3.8000e-003</b>	<b>0.2232</b>		<b>764.8190</b>	<b>764.8190</b>	<b>0.0189</b>	<b>0.0188</b>	<b>770.8982</b>



19370 Redlands Ave West 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	56.7643					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
<b>Total</b>	<b>56.9560</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.2704	0.1671	2.7148	7.2800e-003	0.8272	3.8800e-003	0.8310	0.2194	3.5700e-003	0.2229		744.5902	744.5902	0.0170	0.0174	750.1886
<b>Total</b>	<b>0.2704</b>	<b>0.1671</b>	<b>2.7148</b>	<b>7.2800e-003</b>	<b>0.8272</b>	<b>3.8800e-003</b>	<b>0.8310</b>	<b>0.2194</b>	<b>3.5700e-003</b>	<b>0.2229</b>		<b>744.5902</b>	<b>744.5902</b>	<b>0.0170</b>	<b>0.0174</b>	<b>750.1886</b>

19370 Redlands Ave West 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	56.7643					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
<b>Total</b>	<b>56.9560</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.2704	0.1671	2.7148	7.2800e-003	0.8272	3.8800e-003	0.8310	0.2194	3.5700e-003	0.2229		744.5902	744.5902	0.0170	0.0174	750.1886
<b>Total</b>	<b>0.2704</b>	<b>0.1671</b>	<b>2.7148</b>	<b>7.2800e-003</b>	<b>0.8272</b>	<b>3.8800e-003</b>	<b>0.8310</b>	<b>0.2194</b>	<b>3.5700e-003</b>	<b>0.2229</b>		<b>744.5902</b>	<b>744.5902</b>	<b>0.0170</b>	<b>0.0174</b>	<b>750.1886</b>

19370 Redlands Ave West 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	1.7937	8.8186	19.0006	0.0727	4.9996	0.0939	5.0934	1.3488	0.0893	1.4380		7,590.9964	7,590.9964	0.2176	0.7333	7,814.9625
Unmitigated	2.1142	11.5244	25.2576	0.1017	7.1023	0.1323	7.2347	1.9160	0.1258	2.0419		10,627.3926	10,627.3926	0.2842	1.0097	10,935.3986

**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	605.35	605.35	605.35	3,254,747	2,291,122
<b>Total</b>	<b>605.35</b>	<b>605.35</b>	<b>605.35</b>	<b>3,254,747</b>	<b>2,291,122</b>

**4.3 Trip Type Information**

19370 Redlands Ave West 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	40.00	8.40	6.90	27.00	0.00	73.00	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**

19370 Redlands Ave West 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					
Natural Gas Mitigated	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
Natural Gas Unmitigated	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640

**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	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	1841.75	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
<b>Total</b>		<b>0.0199</b>	<b>0.1806</b>	<b>0.1517</b>	<b>1.0800e-003</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>		<b>216.6764</b>	<b>216.6764</b>	<b>4.1500e-003</b>	<b>3.9700e-003</b>	<b>217.9640</b>

19370 Redlands Ave West 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**

**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	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	1.84175	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
<b>Total</b>		<b>0.0199</b>	<b>0.1806</b>	<b>0.1517</b>	<b>1.0800e-003</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>		<b>216.6764</b>	<b>216.6764</b>	<b>4.1500e-003</b>	<b>3.9700e-003</b>	<b>217.9640</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

19370 Redlands Ave West 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	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
Unmitigated	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764

**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	0.8913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.1500e-003	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
<b>Total</b>	<b>7.7150</b>	<b>7.0000e-004</b>	<b>0.0772</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>0.1655</b>	<b>0.1655</b>	<b>4.3000e-004</b>		<b>0.1764</b>

19370 Redlands Ave West 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	0.8913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.1500e-003	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
<b>Total</b>	<b>7.7150</b>	<b>7.0000e-004</b>	<b>0.0772</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>0.1655</b>	<b>0.1655</b>	<b>4.3000e-004</b>		<b>0.1764</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Apply Water Conservation Strategy
- Use Water Efficient Irrigation System



19370 Redlands Ave West 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**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

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**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**

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19370 Redlands Ave West 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**

**19370 Redlands Ave West 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	334.45	1000sqft	7.59	334,447.00	0
Other Asphalt Surfaces	7.38	Acre	7.38	321,472.80	0
Other Non-Asphalt Surfaces	103.44	1000sqft	2.37	103,440.00	0
Parking Lot	311.00	Space	2.80	124,400.00	0

**1.2 Other Project Characteristics**

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

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - 20.14 acres w/ 334.447 TSF warehouse (w/ 4 TSF mezzanine), 103.44 TSF landscaping, 127 auto spaces & 184 trailer parking spaces, & remainder site paving of on-site roadways/loading dock areas etc. (~7.38 ac).

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

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~60%; therefore, ~60% more equipment added to default CalEEMod equipment list for building construction.

Grading - Site anticipated to balance.

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

Sequestration - ~172 new trees per landscape plans.

19370 Redlands Ave West 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**

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site ~0.27 miles east of RTA Rte19 stop Perris FS Ensenada & ~3.03 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.

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

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	370.00	150.00
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
tblLandUse	LotAcreage	7.68	7.59
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

19370 Redlands Ave West 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**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	172.00
tblVehicleTrips	CNW_TTP	41.00	73.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	27.00
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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19370 Redlands Ave West 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	64.2216	46.4015	59.9728	0.1399	9.4271	2.0844	11.0632	3.7130	1.9612	5.2182	0.0000	13,881.70 39	13,881.70 39	1.9493	0.5354	14,087.14 67
2023	61.3067	31.5323	43.3773	0.1134	5.9028	1.2838	7.1865	1.5866	1.2176	2.8042	0.0000	11,318.25 49	11,318.25 49	1.0948	0.5052	11,496.15 77
<b>Maximum</b>	<b>64.2216</b>	<b>46.4015</b>	<b>59.9728</b>	<b>0.1399</b>	<b>9.4271</b>	<b>2.0844</b>	<b>11.0632</b>	<b>3.7130</b>	<b>1.9612</b>	<b>5.2182</b>	<b>0.0000</b>	<b>13,881.70 39</b>	<b>13,881.70 39</b>	<b>1.9493</b>	<b>0.5354</b>	<b>14,087.14 67</b>

**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	64.2216	46.4015	59.9728	0.1399	6.0705	2.0844	8.1549	1.6310	1.9612	3.5922	0.0000	13,881.70 39	13,881.70 39	1.9493	0.5354	14,087.14 67
2023	61.3067	31.5323	43.3773	0.1134	5.9028	1.2838	7.1865	1.5866	1.2176	2.8042	0.0000	11,318.25 49	11,318.25 49	1.0948	0.5052	11,496.15 77
<b>Maximum</b>	<b>64.2216</b>	<b>46.4015</b>	<b>59.9728</b>	<b>0.1399</b>	<b>6.0705</b>	<b>2.0844</b>	<b>8.1549</b>	<b>1.6310</b>	<b>1.9612</b>	<b>3.5922</b>	<b>0.0000</b>	<b>13,881.70 39</b>	<b>13,881.70 39</b>	<b>1.9493</b>	<b>0.5354</b>	<b>14,087.14 67</b>

19370 Redlands Ave West 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	21.90	0.00	15.94	39.29	0.00	20.27	0.00	0.00	0.00	0.00	0.00	0.00

19370 Redlands Ave West 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	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
Energy	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
Mobile	1.8699	12.2109	22.2959	0.0979	7.1023	0.1325	7.2348	1.9160	0.1260	2.0420		10,231.6809	10,231.6809	0.2848	1.0162	10,541.6394
<b>Total</b>	<b>9.6048</b>	<b>12.3921</b>	<b>22.5248</b>	<b>0.0990</b>	<b>7.1023</b>	<b>0.1465</b>	<b>7.2488</b>	<b>1.9160</b>	<b>0.1400</b>	<b>2.0560</b>		<b>10,448.5228</b>	<b>10,448.5228</b>	<b>0.2894</b>	<b>1.0202</b>	<b>10,759.7797</b>

**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	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
Energy	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
Mobile	1.5557	9.3573	17.0305	0.0700	4.9996	0.0941	5.0936	1.3488	0.0894	1.4382		7,315.4148	7,315.4148	0.2202	0.7386	7,541.0104
<b>Total</b>	<b>9.2906</b>	<b>9.5386</b>	<b>17.2594</b>	<b>0.0711</b>	<b>4.9996</b>	<b>0.1081</b>	<b>5.1076</b>	<b>1.3488</b>	<b>0.1034</b>	<b>1.4522</b>		<b>7,532.2567</b>	<b>7,532.2567</b>	<b>0.2248</b>	<b>0.7425</b>	<b>7,759.1507</b>

19370 Redlands Ave West 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	3.27	23.03	23.38	28.20	29.61	26.24	29.54	29.61	26.12	29.37	0.00	27.91	27.91	22.32	27.22	27.89

**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	5/1/2022	6/17/2022	5	35	
2	Building Construction	Building Construction	6/18/2022	1/15/2023	5	150	
3	Paving	Paving	12/5/2022	12/30/2022	5	20	
4	Architectural Coating	Architectural Coating	12/22/2022	2/1/2023	5	30	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 105**

**Acres of Paving: 12.55**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 501,671; Non-Residential Outdoor: 167,224; Striped Parking Area: 32,959 (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



19370 Redlands Ave West 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**

Building Construction	Generator Sets	2	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	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	371.00	145.00	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	74.00	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

19370 Redlands Ave West 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	0.0736	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
<b>Total</b>	<b>0.0736</b>	<b>0.0530</b>	<b>0.6462</b>	<b>1.8400e-003</b>	<b>0.2236</b>	<b>1.1100e-003</b>	<b>0.2247</b>	<b>0.0593</b>	<b>1.0300e-003</b>	<b>0.0603</b>		<b>187.2348</b>	<b>187.2348</b>	<b>5.0800e-003</b>	<b>5.2000e-003</b>	<b>188.9129</b>

19370 Redlands Ave West 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			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
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.5894</b>	<b>1.6349</b>	<b>5.2243</b>	<b>1.4250</b>	<b>1.5041</b>	<b>2.9291</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

**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	0.0736	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
<b>Total</b>	<b>0.0736</b>	<b>0.0530</b>	<b>0.6462</b>	<b>1.8400e-003</b>	<b>0.2236</b>	<b>1.1100e-003</b>	<b>0.2247</b>	<b>0.0593</b>	<b>1.0300e-003</b>	<b>0.0603</b>		<b>187.2348</b>	<b>187.2348</b>	<b>5.0800e-003</b>	<b>5.2000e-003</b>	<b>188.9129</b>

19370 Redlands Ave West 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	2.8970	26.1891	26.5029	0.0454		1.3206	1.3206		1.2486	1.2486		4,285.4374	4,285.4374	0.9576		4,309.3784
<b>Total</b>	<b>2.8970</b>	<b>26.1891</b>	<b>26.5029</b>	<b>0.0454</b>		<b>1.3206</b>	<b>1.3206</b>		<b>1.2486</b>	<b>1.2486</b>		<b>4,285.4374</b>	<b>4,285.4374</b>	<b>0.9576</b>		<b>4,309.3784</b>

**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	0.2259	6.4596	2.2139	0.0264	0.9288	0.0886	1.0174	0.2674	0.0848	0.3522		2,800.7586	2,800.7586	0.0292	0.4157	2,925.3560
Worker	1.3658	0.9835	11.9865	0.0341	4.1469	0.0207	4.1676	1.0998	0.0190	1.1188		3,473.2049	3,473.2049	0.0943	0.0966	3,504.3336
<b>Total</b>	<b>1.5917</b>	<b>7.4431</b>	<b>14.2003</b>	<b>0.0606</b>	<b>5.0757</b>	<b>0.1093</b>	<b>5.1850</b>	<b>1.3672</b>	<b>0.1038</b>	<b>1.4710</b>		<b>6,273.9635</b>	<b>6,273.9635</b>	<b>0.1235</b>	<b>0.5122</b>	<b>6,429.6896</b>

19370 Redlands Ave West 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	2.8970	26.1891	26.5029	0.0454		1.3206	1.3206		1.2486	1.2486	0.0000	4,285.437 3	4,285.437 3	0.9576		4,309.378 4
<b>Total</b>	<b>2.8970</b>	<b>26.1891</b>	<b>26.5029</b>	<b>0.0454</b>		<b>1.3206</b>	<b>1.3206</b>		<b>1.2486</b>	<b>1.2486</b>	<b>0.0000</b>	<b>4,285.437 3</b>	<b>4,285.437 3</b>	<b>0.9576</b>		<b>4,309.378 4</b>

**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	0.2259	6.4596	2.2139	0.0264	0.9288	0.0886	1.0174	0.2674	0.0848	0.3522		2,800.758 6	2,800.758 6	0.0292	0.4157	2,925.356 0
Worker	1.3658	0.9835	11.9865	0.0341	4.1469	0.0207	4.1676	1.0998	0.0190	1.1188		3,473.204 9	3,473.204 9	0.0943	0.0966	3,504.333 6
<b>Total</b>	<b>1.5917</b>	<b>7.4431</b>	<b>14.2003</b>	<b>0.0606</b>	<b>5.0757</b>	<b>0.1093</b>	<b>5.1850</b>	<b>1.3672</b>	<b>0.1038</b>	<b>1.4710</b>		<b>6,273.963 5</b>	<b>6,273.963 5</b>	<b>0.1235</b>	<b>0.5122</b>	<b>6,429.689 6</b>

19370 Redlands Ave West 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857		4,286.5993	4,286.5993	0.9493		4,310.3306
<b>Total</b>	<b>2.6756</b>	<b>24.1630</b>	<b>26.2936</b>	<b>0.0454</b>		<b>1.1482</b>	<b>1.1482</b>		<b>1.0857</b>	<b>1.0857</b>		<b>4,286.5993</b>	<b>4,286.5993</b>	<b>0.9493</b>		<b>4,310.3306</b>

**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	0.1514	5.0240	2.0162	0.0254	0.9287	0.0414	0.9701	0.2674	0.0396	0.3070		2,693.0966	2,693.0966	0.0269	0.3983	2,812.4601
Worker	1.2705	0.8690	11.0519	0.0331	4.1469	0.0195	4.1664	1.0998	0.0179	1.1177		3,382.4453	3,382.4453	0.0850	0.0891	3,411.1141
<b>Total</b>	<b>1.4218</b>	<b>5.8930</b>	<b>13.0682</b>	<b>0.0585</b>	<b>5.0756</b>	<b>0.0609</b>	<b>5.1365</b>	<b>1.3672</b>	<b>0.0575</b>	<b>1.4247</b>		<b>6,075.5419</b>	<b>6,075.5419</b>	<b>0.1118</b>	<b>0.4874</b>	<b>6,223.5742</b>

19370 Redlands Ave West 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857	0.0000	4,286.599 3	4,286.599 3	0.9493		4,310.330 6
<b>Total</b>	<b>2.6756</b>	<b>24.1630</b>	<b>26.2936</b>	<b>0.0454</b>		<b>1.1482</b>	<b>1.1482</b>		<b>1.0857</b>	<b>1.0857</b>	<b>0.0000</b>	<b>4,286.599 3</b>	<b>4,286.599 3</b>	<b>0.9493</b>		<b>4,310.330 6</b>

**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	0.1514	5.0240	2.0162	0.0254	0.9287	0.0414	0.9701	0.2674	0.0396	0.3070		2,693.096 6	2,693.096 6	0.0269	0.3983	2,812.460 1
Worker	1.2705	0.8690	11.0519	0.0331	4.1469	0.0195	4.1664	1.0998	0.0179	1.1177		3,382.445 3	3,382.445 3	0.0850	0.0891	3,411.114 1
<b>Total</b>	<b>1.4218</b>	<b>5.8930</b>	<b>13.0682</b>	<b>0.0585</b>	<b>5.0756</b>	<b>0.0609</b>	<b>5.1365</b>	<b>1.3672</b>	<b>0.0575</b>	<b>1.4247</b>		<b>6,075.541 9</b>	<b>6,075.541 9</b>	<b>0.1118</b>	<b>0.4874</b>	<b>6,223.574 2</b>

19370 Redlands Ave West 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 - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	1.3336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4364</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

**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	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
<b>Total</b>	<b>0.0552</b>	<b>0.0398</b>	<b>0.4846</b>	<b>1.3800e-003</b>	<b>0.1677</b>	<b>8.4000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>140.4261</b>	<b>140.4261</b>	<b>3.8100e-003</b>	<b>3.9000e-003</b>	<b>141.6847</b>



19370 Redlands Ave West 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 - 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	1.3336					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.4364</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660 3</b>	<b>2,207.660 3</b>	<b>0.7140</b>		<b>2,225.510 4</b>

**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	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
<b>Total</b>	<b>0.0552</b>	<b>0.0398</b>	<b>0.4846</b>	<b>1.3800e-003</b>	<b>0.1677</b>	<b>8.4000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>140.4261</b>	<b>140.4261</b>	<b>3.8100e-003</b>	<b>3.9000e-003</b>	<b>141.6847</b>

19370 Redlands Ave West 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 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.7643					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>56.9688</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.2724	0.1962	2.3908	6.8100e-003	0.8272	4.1200e-003	0.8313	0.2194	3.8000e-003	0.2232		692.7686	692.7686	0.0188	0.0193	698.9776
<b>Total</b>	<b>0.2724</b>	<b>0.1962</b>	<b>2.3908</b>	<b>6.8100e-003</b>	<b>0.8272</b>	<b>4.1200e-003</b>	<b>0.8313</b>	<b>0.2194</b>	<b>3.8000e-003</b>	<b>0.2232</b>		<b>692.7686</b>	<b>692.7686</b>	<b>0.0188</b>	<b>0.0193</b>	<b>698.9776</b>

19370 Redlands Ave West 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 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.7643					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>56.9688</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.2724	0.1962	2.3908	6.8100e-003	0.8272	4.1200e-003	0.8313	0.2194	3.8000e-003	0.2232		692.7686	692.7686	0.0188	0.0193	698.9776
<b>Total</b>	<b>0.2724</b>	<b>0.1962</b>	<b>2.3908</b>	<b>6.8100e-003</b>	<b>0.8272</b>	<b>4.1200e-003</b>	<b>0.8313</b>	<b>0.2194</b>	<b>3.8000e-003</b>	<b>0.2232</b>		<b>692.7686</b>	<b>692.7686</b>	<b>0.0188</b>	<b>0.0193</b>	<b>698.9776</b>

19370 Redlands Ave West 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	56.7643					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
<b>Total</b>	<b>56.9560</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.2534	0.1733	2.2044	6.5900e-003	0.8272	3.8800e-003	0.8310	0.2194	3.5700e-003	0.2229		674.6656	674.6656	0.0169	0.0178	680.3839
<b>Total</b>	<b>0.2534</b>	<b>0.1733</b>	<b>2.2044</b>	<b>6.5900e-003</b>	<b>0.8272</b>	<b>3.8800e-003</b>	<b>0.8310</b>	<b>0.2194</b>	<b>3.5700e-003</b>	<b>0.2229</b>		<b>674.6656</b>	<b>674.6656</b>	<b>0.0169</b>	<b>0.0178</b>	<b>680.3839</b>

19370 Redlands Ave West 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	56.7643					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
<b>Total</b>	<b>56.9560</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.2534	0.1733	2.2044	6.5900e-003	0.8272	3.8800e-003	0.8310	0.2194	3.5700e-003	0.2229		674.6656	674.6656	0.0169	0.0178	680.3839
<b>Total</b>	<b>0.2534</b>	<b>0.1733</b>	<b>2.2044</b>	<b>6.5900e-003</b>	<b>0.8272</b>	<b>3.8800e-003</b>	<b>0.8310</b>	<b>0.2194</b>	<b>3.5700e-003</b>	<b>0.2229</b>		<b>674.6656</b>	<b>674.6656</b>	<b>0.0169</b>	<b>0.0178</b>	<b>680.3839</b>

19370 Redlands Ave West 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	1.5557	9.3573	17.0305	0.0700	4.9996	0.0941	5.0936	1.3488	0.0894	1.4382		7,315.4148	7,315.4148	0.2202	0.7386	7,541.0104
Unmitigated	1.8699	12.2109	22.2959	0.0979	7.1023	0.1325	7.2348	1.9160	0.1260	2.0420		10,231.6809	10,231.6809	0.2848	1.0162	10,541.6394

**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	605.35	605.35	605.35	3,254,747	2,291,122
<b>Total</b>	<b>605.35</b>	<b>605.35</b>	<b>605.35</b>	<b>3,254,747</b>	<b>2,291,122</b>

**4.3 Trip Type Information**

19370 Redlands Ave West 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	40.00	8.40	6.90	27.00	0.00	73.00	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**

19370 Redlands Ave West 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	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
NaturalGas Unmitigated	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640

**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	1841.75	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
<b>Total</b>		<b>0.0199</b>	<b>0.1806</b>	<b>0.1517</b>	<b>1.0800e-003</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>		<b>216.6764</b>	<b>216.6764</b>	<b>4.1500e-003</b>	<b>3.9700e-003</b>	<b>217.9640</b>



19370 Redlands Ave West 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 - 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	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	1.84175	0.0199	0.1806	0.1517	1.0800e-003		0.0137	0.0137		0.0137	0.0137		216.6764	216.6764	4.1500e-003	3.9700e-003	217.9640
<b>Total</b>		<b>0.0199</b>	<b>0.1806</b>	<b>0.1517</b>	<b>1.0800e-003</b>		<b>0.0137</b>	<b>0.0137</b>		<b>0.0137</b>	<b>0.0137</b>		<b>216.6764</b>	<b>216.6764</b>	<b>4.1500e-003</b>	<b>3.9700e-003</b>	<b>217.9640</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

19370 Redlands Ave West 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	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
Unmitigated	7.7150	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764

**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	0.8913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.1500e-003	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
<b>Total</b>	<b>7.7150</b>	<b>7.0000e-004</b>	<b>0.0772</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>0.1655</b>	<b>0.1655</b>	<b>4.3000e-004</b>		<b>0.1764</b>

19370 Redlands Ave West 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	0.8913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.8166					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.1500e-003	7.0000e-004	0.0772	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1655	0.1655	4.3000e-004		0.1764
<b>Total</b>	<b>7.7150</b>	<b>7.0000e-004</b>	<b>0.0772</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>0.1655</b>	<b>0.1655</b>	<b>4.3000e-004</b>		<b>0.1764</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Apply Water Conservation Strategy
- Use Water Efficient Irrigation System

19370 Redlands Ave West 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**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

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**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**

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**APPENDIX C**  
**AERMOD MODEL PRINTOUTS**

**Emission Assumptions**      **DPM**      Emissions  
**19370 Redlands Avenue West Industrial Project**

**Facility Operations**

Buildout year:                      2023

**Emission Factors**

1) Onsite Vehicle Emissions

a) Truck

(1) EMFAC2017

(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

<b>19370 Redlands Avenue West Industrial Project</b>		<b>Emission:</b>	<b>DPM</b>												
<b>Processes Modeled</b>		<b>Build-out:</b>	<b>2023</b>												
Onsite delivery traffic															
Truck idling															
Offsite delivery traffic															
<b>Facilities in Operation</b>															
<b>Location</b>	<b>Truck type</b>	<b>Daily trucks</b>													
Project Site	HHDT	102													
Project Site	MHDT	34													
Project Site	LHDT2	27													
<b>Total</b>		<b>163</b>													
<b>Delivery Schedule:</b>															
		<b>24 hrs/day, 52 weeks/year</b>													
<b>Emission Factors 1 Year (2023)</b>															
	<b>Onsite Exhaust (g/mi)</b>	<b>Offsite Exhaust (g/mi)</b>	<b>Idle (g/hr)</b>												
<b>Vehicle Class</b>															
HHDT	0.01139	0.00878	0.01257												
MHDT	0.00584	0.00393	0.04397												
LHDT2	0.04961	0.01929	0.78770												
<b>Onsite Roadway Links Modeled</b>															
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day (in and out)</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>	<b>Total Daily Emissions for all Vehicles (g/sec)</b>				
From northern project driveway to truck loading area and parking area	HHDT	0.01139	102	342.8	0.21	2.47E-01	2.86E-06	1.96E+00	5.45E-04	9.95E-05					
From northern project driveway to truck loading area and parking area	MHDT	0.00584	34	342.8	0.21	4.23E-02	4.89E-07	3.35E-01	9.31E-05	1.70E-05	<b>3.33E-06</b>	50% of trucks			
From northern project driveway to truck loading area and parking area	LHDT2	0.04961	27	342.8	0.21	2.85E-01	3.30E-06	2.26E+00	6.28E-04	1.15E-04					
From southern project driveway to loading and parking area	HHDT	0.01139	102	457.7	0.28	3.30E-01	3.82E-06	2.62E+00	7.28E-04	1.33E-04					
From southern project driveway to loading and parking area	MHDT	0.00584	34	457.7	0.28	5.65E-02	6.53E-07	4.48E-01	1.24E-04	2.27E-05	<b>4.44E-06</b>	50% of trucks			
From southern project driveway to loading and parking area	LHDT2	0.04961	27	457.7	0.28	3.81E-01	4.41E-06	3.02E+00	8.39E-04	1.53E-04					
<b>Truck Idling</b>															
	Idle time		15 minutes												
<b>Building/Location</b>	<b>Truck Type</b>	<b>Emission Factor (g/Idle-hour)</b>	<b>Idling Time (min)</b>	<b>Daily Trucks</b>	<b>Total Emissions (g/day)</b>	<b>Max Hourly Emissions (g/sec)</b>	<b>Max Hourly Emissions (lb/hr)</b>	<b>Total Daily Emissions (lbs/day)</b>	<b>Total Emissions (tons/yr)</b>	<b>Total Emissions (tons/yr)</b>					
At truck loading & parking areas	HHDT	0.01257	15	102	0.32	3.71E-06	2.94E-05	7.06E-04	1.29E-04						
At truck loading & parking areas	MHDT	0.04397	15	34	0.37	4.33E-06	3.43E-05	8.23E-04	1.50E-04		6.96E-05				
At truck loading & parking areas	LHDT2	0.78770	15	27	5.32	6.15E-05	4.88E-04	1.17E-02	2.14E-03		<b>1.16E-05</b>	per idling location (6 total)			
<b>Offsite Roadway Links Modeled</b>															
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Max Hourly Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>					
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00878	102	216.3	0.13	1.20E-01	1.39E-06	9.54E-01	2.65E-04	4.84E-05	50% of trucks				
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00393	34	216.3	0.13	1.80E-02	2.08E-07	1.42E-01	3.95E-05	7.22E-06	<b>1.21E-06</b>				
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01929	27	216.3	0.13	7.00E-02	8.10E-07	5.55E-01	1.54E-04	2.81E-05					
Redlands Ave north of northern project driveway	HHDT	0.00878	102	463.5	0.29	2.58E-01	2.98E-06	2.04E+00	5.68E-04	1.04E-04	100% of trucks				
Redlands Ave north of northern project driveway	MHDT	0.00393	34	463.5	0.29	3.85E-02	4.45E-07	3.05E-01	8.47E-05	1.55E-05	<b>5.17E-06</b>				
Redlands Ave north of northern project driveway	LHDT2	0.01929	27	463.5	0.29	1.50E-01	1.74E-06	1.19E+00	3.30E-04	6.03E-05					

19370 Redlands Avenue West Industrial Project		Emission:	DPM												
<b>Processes Modeled</b>		<b>Build-out:</b>	<b>2023</b>												
Onsite delivery traffic															
Truck idling															
Offsite delivery traffic															
<b>Facilities in Operation</b>															
<b>Location</b>	<b>Truck type</b>	<b>Daily trucks</b>													
Project Site	HHDT	102													
Project Site	MHDT	34													
Project Site	LHDT2	27													
<b>Total</b>		<b>163</b>													
<b>Delivery Schedule:</b>		24 hrs/day, 52weeks/year													
<b>Emission Factors 2 Year</b>		<b>Onsite Exhaust (g/mi)</b>	<b>Offsite Exhaust (g/mi)</b>	<b>Idle (g/hr)</b>											
<b>Vehicle Class</b>															
HHDT		0.01134	0.00889	0.01221											
MHDT		0.00563	0.00395	0.03562											
LHDT2		0.04668	0.01861	0.78961											
<b>Onsite Roadway Links Modeled</b>															
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day (in and out)</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>	<b>Total Daily Emissions for all Vehicles (g/sec)</b>				
From northern project driveway to truck loading area and parking area	HHDT	0.01134	102	342.8	0.21	2.46E-01	2.85E-06	1.95E+00	5.43E-04	9.90E-05					
From northern project driveway to truck loading area and parking area	MHDT	0.00563	34	342.8	0.21	4.08E-02	4.72E-07	3.23E-01	8.98E-05	1.64E-05	<b>3.21E-06</b>	50% of trucks			
From northern project driveway to truck loading area and parking area	LHDT2	0.04668	27	342.8	0.21	2.68E-01	3.11E-06	2.13E+00	5.91E-04	1.08E-04					
From southern project driveway to loading and parking area	HHDT	0.01134	102	457.7	0.28	3.29E-01	3.81E-06	2.61E+00	7.24E-04	1.32E-04					
From southern project driveway to loading and parking area	MHDT	0.00563	34	457.7	0.28	5.44E-02	6.30E-07	4.32E-01	1.20E-04	2.19E-05	<b>4.29E-06</b>	50% of trucks			
From southern project driveway to loading and parking area	LHDT2	0.04668	27	457.7	0.28	3.58E-01	4.15E-06	2.84E+00	7.89E-04	1.44E-04					
<b>Truck Idling</b>		Idle time	15 minutes												
<b>Building/Location</b>	<b>Truck Type</b>	<b>Emission Factor (g/idle-hour)</b>	<b>Idling Time (min)</b>	<b>Daily Trucks</b>	<b>Total Emissions (g/day)</b>	<b>Max Hourly Emissions (g/sec)</b>	<b>Max Hourly Emissions (lb/hr)</b>	<b>Total Daily Emissions (lbs/day)</b>	<b>Total Emissions (tons/yr)</b>	<b>Total Emissions (tons/yr)</b>					
At truck loading & parking areas	HHDT	0.01221	15	102	0.31	3.60E-06	2.86E-05	6.86E-04	1.25E-04						
At truck loading & parking areas	MHDT	0.03562	15	34	0.30	3.50E-06	2.78E-05	6.67E-04	1.22E-04	6.88E-05					
At truck loading & parking areas	LHDT2	0.78961	15	27	5.33	6.17E-05	4.89E-04	1.17E-02	2.14E-03	<b>1.15E-05</b>	per idling location (6 total)				
<b>Offsite Roadway Links Modeled</b>															
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Max Hourly Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>					
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00889	102	216.3	0.13	1.22E-01	1.41E-06	9.66E-01	2.68E-04	4.90E-05	50% of trucks				
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00395	34	216.3	0.13	1.80E-02	2.09E-07	1.43E-01	3.97E-05	7.25E-06	<b>1.20E-06</b>				
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01861	27	216.3	0.13	6.75E-02	7.81E-07	5.35E-01	1.49E-04	2.71E-05					
Redlands Ave north of northern project driveway	HHDT	0.00889	102	463.5	0.29	2.61E-01	3.02E-06	2.07E+00	5.75E-04	1.05E-04	100% of trucks				
Redlands Ave north of northern project driveway	MHDT	0.00395	34	463.5	0.29	3.87E-02	4.48E-07	3.07E-01	8.52E-05	1.55E-05	<b>5.14E-06</b>				
Redlands Ave north of northern project driveway	LHDT2	0.01861	27	463.5	0.29	1.45E-01	1.67E-06	1.15E+00	3.19E-04	5.82E-05					



<b>19370 Redlands Avenue West Industrial Project</b>		<b>Emission:</b>	<b>DPM</b>												
<b>Processes Modeled</b>		<b>Build-out:</b>	<b>2023</b>												
Onsite delivery traffic															
Truck idling															
Offsite delivery traffic															
<b>Facilities in Operation</b>															
<b>Location</b>	<b>Truck type</b>	<b>Daily trucks</b>													
Project Site	HHDT	102													
Project Site	MHDT	34													
Project Site	LHDT2	27													
<b>Total</b>		<b>163</b>													
<b>Delivery Schedule:</b>		<b>24 hrs/day, 52weeks/year</b>													
<b>Emission Factors 14 Year 2026-2039</b>		<b>Onsite Exhaust (g/mi)</b>	<b>Offsite Exhaust (g/mi)</b>	<b>Idle (g/hr)</b>											
<b>Vehicle Class</b>															
HHDT		0.01025	0.00842	0.01085											
MHDT		0.00485	0.00384	0.01499											
LHDT2		0.03597	0.01602	0.79372											
<b>Onsite Roadway Links Modeled</b>															
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day (in and out)</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>	<b>Total Daily Emissions for all Vehicles (g/sec)</b>				
From northern project driveway to truck loading area and parking area	HHDT	0.01025	102	342.8	0.21	2.23E-01	2.58E-06	1.77E+00	4.90E-04	8.95E-05					
From northern project driveway to truck loading area and parking area	MHDT	0.00485	34	342.8	0.21	3.51E-02	4.06E-07	2.78E-01	7.73E-05	1.41E-05	<b>2.69E-06</b>	50% of trucks			
From northern project driveway to truck loading area and parking area	LHDT2	0.03597	27	342.8	0.21	2.07E-01	2.39E-06	1.64E+00	4.56E-04	8.31E-05					
From southern project driveway to loading and parking area	HHDT	0.01025	102	457.7	0.28	2.97E-01	3.44E-06	2.36E+00	6.55E-04	1.19E-04					
From southern project driveway to loading and parking area	MHDT	0.00485	34	457.7	0.28	4.69E-02	5.43E-07	3.72E-01	1.03E-04	1.88E-05	<b>3.59E-06</b>	50% of trucks			
From southern project driveway to loading and parking area	LHDT2	0.03597	27	457.7	0.28	2.76E-01	3.20E-06	2.19E+00	6.08E-04	1.11E-04					
<b>Truck Idling</b>		Idle time	15 minutes												
<b>Building/Location</b>	<b>Truck Type</b>	<b>Emission Factor (g/Idle-hour)</b>	<b>Idling Time (min)</b>	<b>Daily Trucks</b>	<b>Total Emissions (g/day)</b>	<b>Max Hourly Emissions (g/sec)</b>	<b>Max Hourly Emissions (lb/hr)</b>	<b>Total Daily Emissions (lbs/day)</b>	<b>Total Emissions (tons/yr)</b>	<b>Total Emissions (tons/yr)</b>					
At truck loading & parking areas	HHDT	0.01085	15	102	0.28	3.20E-06	2.54E-05	6.09E-04	1.11E-04						
At truck loading & parking areas	MHDT	0.01499	15	34	0.13	1.47E-06	1.17E-05	2.81E-04	5.12E-05		6.67E-05				
At truck loading & parking areas	LHDT2	0.79372	15	27	5.36	6.20E-05	4.92E-04	1.18E-02	2.15E-03		<b>1.11E-05</b>	per idling location (6 total)			
<b>Offsite Roadway Links Modeled</b>															
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Max Hourly Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>					
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00842	102	216.3	0.13	1.15E-01	1.34E-06	9.15E-01	2.54E-04	4.64E-05	50% of trucks				
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00384	34	216.3	0.13	1.75E-02	2.03E-07	1.39E-01	3.86E-05	7.05E-06	<b>1.11E-06</b>				
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01602	27	216.3	0.13	5.81E-02	6.73E-07	4.61E-01	1.28E-04	2.34E-05					
Redlands Ave north of northern project driveway	HHDT	0.00842	102	463.5	0.29	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	0.00384	34	463.5	0.29	3.76E-02	4.35E-07	2.98E-01	8.28E-05	1.51E-05	<b>4.74E-06</b>				
Redlands Ave north of northern project driveway	LHDT2	0.01602	27	463.5	0.29	1.25E-01	1.44E-06	9.88E-01	2.74E-04	5.01E-05					

19370 Redlands Avenue West Industrial Project												Emission:	DPM										
<b>Processes Modeled</b>												<b>Build-out:</b>	<b>2023</b>										
Onsite delivery traffic																							
Truck idling																							
Offsite delivery traffic																							
<b>Facilities in Operation</b>																							
<b>Location</b>	<b>Truck type</b>	<b>Daily trucks</b>																					
Project Site	HHDT	102																					
Project Site	MHDT	34																					
Project Site	LHDT2	27																					
<b>Total</b>		<b>163</b>																					
<b>Delivery Schedule:</b>																							
		24 hrs/day, 52weeks/year																					
<b>Emission Factors 14 Year 2040-2053</b>																							
	<b>Onsite Exhaust</b>	<b>Offsite Exhaust</b>	<b>Idle</b>																				
<b>Vehicle Class</b>	<b>(g/mi)</b>	<b>(g/mi)</b>	<b>(g/hr)</b>																				
HHDT	0.00957	0.00810	0.01014																				
MHDT	0.00434	0.00367	0.00764																				
LHDT2	0.02896	0.01430	0.79463																				
<b>Onsite Roadway Links Modeled</b>																							
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day (in and out)</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>	<b>Total Daily Emissions for all Vehicles (g/sec)</b>												
From northern project driveway to truck loading area and parking area	HHDT	0.00957	102	342.8	0.21	2.08E-01	2.41E-06	1.65E+00	4.58E-04	8.36E-05													
From northern project driveway to truck loading area and parking area	MHDT	0.00434	34	342.8	0.21	3.14E-02	3.64E-07	2.49E-01	6.92E-05	1.26E-05	<b>2.35E-06</b>	50% of trucks											
From northern project driveway to truck loading area and parking area	LHDT2	0.02896	27	342.8	0.21	1.67E-01	1.93E-06	1.32E+00	3.67E-04	6.69E-05													
From southern project driveway to loading and parking area	HHDT	0.00957	102	457.7	0.28	2.78E-01	3.21E-06	2.20E+00	6.11E-04	1.12E-04													
From southern project driveway to loading and parking area	MHDT	0.00434	34	457.7	0.28	4.20E-02	4.86E-07	3.33E-01	9.24E-05	1.69E-05	<b>3.14E-06</b>	50% of trucks											
From southern project driveway to loading and parking area	LHDT2	0.02896	27	457.7	0.28	2.22E-01	2.57E-06	1.76E+00	4.90E-04	8.94E-05													
<b>Truck Idling</b>																							
	Idle time		15 minutes																				
<b>Building/Location</b>	<b>Truck Type</b>	<b>Emission Factor (g/idle-hour)</b>	<b>Idling Time (min)</b>	<b>Daily Trucks</b>	<b>Total Emissions (g/day)</b>	<b>Max Hourly Emissions (g/sec)</b>	<b>Max Hourly Emissions (lb/hr)</b>	<b>Total Daily Emissions (lbs/day)</b>	<b>Total Emissions (tons/yr)</b>	<b>Total Emissions (tons/yr)</b>													
At truck loading & parking areas	HHDT	0.01014	15	102	0.26	2.99E-06	2.37E-05	5.70E-04	1.04E-04														
At truck loading & parking areas	MHDT	0.00764	15	34	0.06	7.52E-07	5.96E-06	1.43E-04	2.61E-05	6.58E-05													
At truck loading & parking areas	LHDT2	0.79463	15	27	5.36	6.21E-05	4.92E-04	1.18E-02	2.16E-03	<b>1.10E-05</b>	per idling location (6 total)												
<b>Offsite Roadway Links Modeled</b>																							
<b>Link</b>	<b>Truck Type</b>	<b>Emission Factor (g/mi)</b>	<b>Trips per day</b>	<b>Length (m)</b>	<b>Length (mi)</b>	<b>Daily Emissions Over the Link (g/day)</b>	<b>Emissions Over the Link (g/sec)</b>	<b>Max Hourly Emissions Over Link (lb/hr)</b>	<b>Daily Emissions (lbs/day)</b>	<b>Annual Avg Emissions Over Link (tons/yr)</b>													
Redlands Ave southern project driveway to northern project driveway	HHDT	0.00810	102	216.3	0.13	1.11E-01	1.28E-06	8.80E-01	2.45E-04	4.46E-05	50% of trucks												
Redlands Ave southern project driveway to northern project driveway	MHDT	0.00367	34	216.3	0.13	1.68E-02	1.94E-07	1.33E-01	3.69E-05	6.74E-06	<b>1.04E-06</b>												
Redlands Ave southern project driveway to northern project driveway	LHDT2	0.01430	27	216.3	0.13	5.19E-02	6.00E-07	4.11E-01	1.14E-04	2.09E-05													
Redlands Ave north of northern project driveway	HHDT	0.00810	102	463.5	0.29	2.38E-01	2.75E-06	1.89E+00	5.24E-04	9.56E-05	100% of trucks												
Redlands Ave north of northern project driveway	MHDT	0.00367	34	463.5	0.29	3.59E-02	4.16E-07	2.85E-01	7.91E-05	1.44E-05	<b>4.46E-06</b>												
Redlands Ave north of northern project driveway	LHDT2	0.01430	27	463.5	0.29	1.11E-01	1.29E-06	8.82E-01	2.45E-04	4.47E-05													

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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\AERMOD View\19370 Redlands Ave West Industrial.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria
TITLETWO 19370 DPM Concentrations - OY 2023
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19370 Redlands Ave West 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 Onsite from southern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 4.44E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 11
** 479886.890, 3742886.073, 440.50, 0.00, 1.70
** 479818.066, 3742886.064, 440.61, 0.00, 1.70

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\*\* 479767.787, 3742891.223, 440.85, 0.00, 1.70  
 \*\* 479705.988, 3742891.905, 441.01, 0.00, 1.70  
 \*\* 479678.715, 3742890.836, 441.09, 0.00, 1.70  
 \*\* 479665.980, 3742896.710, 441.18, 0.00, 1.70  
 \*\* 479633.961, 3742950.034, 441.20, 0.00, 1.70  
 \*\* 479618.374, 3742985.797, 441.39, 0.00, 1.70  
 \*\* 479638.678, 3742985.699, 441.24, 0.00, 1.70  
 \*\* 479638.938, 3743042.012, 441.34, 0.00, 1.70  
 \*\* 479581.598, 3743042.415, 441.62, 0.00, 1.70

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LOCATION	VOLUME				
LOCATION L0007106	VOLUME	479885.061	3742886.073	440.49	
LOCATION L0007107	VOLUME	479881.404	3742886.072	440.48	
LOCATION L0007108	VOLUME	479877.746	3742886.072	440.46	
LOCATION L0007109	VOLUME	479874.088	3742886.071	440.45	
LOCATION L0007110	VOLUME	479870.431	3742886.071	440.43	
LOCATION L0007111	VOLUME	479866.773	3742886.070	440.42	
LOCATION L0007112	VOLUME	479863.116	3742886.070	440.40	
LOCATION L0007113	VOLUME	479859.458	3742886.069	440.40	
LOCATION L0007114	VOLUME	479855.800	3742886.069	440.41	
LOCATION L0007115	VOLUME	479852.143	3742886.068	440.42	
LOCATION L0007116	VOLUME	479848.485	3742886.068	440.43	
LOCATION L0007117	VOLUME	479844.828	3742886.068	440.45	
LOCATION L0007118	VOLUME	479841.170	3742886.067	440.46	
LOCATION L0007119	VOLUME	479837.512	3742886.067	440.47	
LOCATION L0007120	VOLUME	479833.855	3742886.066	440.49	
LOCATION L0007121	VOLUME	479830.197	3742886.066	440.51	
LOCATION L0007122	VOLUME	479826.540	3742886.065	440.54	
LOCATION L0007123	VOLUME	479822.882	3742886.065	440.56	
LOCATION L0007124	VOLUME	479819.224	3742886.064	440.58	
LOCATION L0007125	VOLUME	479815.580	3742886.319	440.61	
LOCATION L0007126	VOLUME	479811.941	3742886.692	440.63	
LOCATION L0007127	VOLUME	479808.303	3742887.066	440.65	
LOCATION L0007128	VOLUME	479804.664	3742887.439	440.67	
LOCATION L0007129	VOLUME	479801.026	3742887.812	440.68	
LOCATION L0007130	VOLUME	479797.387	3742888.186	440.70	
LOCATION L0007131	VOLUME	479793.749	3742888.559	440.72	
LOCATION L0007132	VOLUME	479790.110	3742888.932	440.73	
LOCATION L0007133	VOLUME	479786.472	3742889.306	440.75	
LOCATION L0007134	VOLUME	479782.833	3742889.679	440.76	
LOCATION L0007135	VOLUME	479779.195	3742890.052	440.78	
LOCATION L0007136	VOLUME	479775.556	3742890.426	440.79	
LOCATION L0007137	VOLUME	479771.918	3742890.799	440.80	
LOCATION L0007138	VOLUME	479768.279	3742891.172	440.81	
LOCATION L0007139	VOLUME	479764.624	3742891.258	440.82	
LOCATION L0007140	VOLUME	479760.967	3742891.298	440.84	
LOCATION L0007141	VOLUME	479757.310	3742891.339	440.85	
LOCATION L0007142	VOLUME	479753.652	3742891.379	440.86	
LOCATION L0007143	VOLUME	479749.995	3742891.419	440.87	
LOCATION L0007144	VOLUME	479746.338	3742891.460	440.89	
LOCATION L0007145	VOLUME	479742.680	3742891.500	440.90	
LOCATION L0007146	VOLUME	479739.023	3742891.540	440.91	

LOCATION	L0007147	VOLUME	479735.365	3742891.581	440.92
LOCATION	L0007148	VOLUME	479731.708	3742891.621	440.94
LOCATION	L0007149	VOLUME	479728.051	3742891.662	440.95
LOCATION	L0007150	VOLUME	479724.393	3742891.702	440.96
LOCATION	L0007151	VOLUME	479720.736	3742891.742	440.97
LOCATION	L0007152	VOLUME	479717.079	3742891.783	440.98
LOCATION	L0007153	VOLUME	479713.421	3742891.823	440.99
LOCATION	L0007154	VOLUME	479709.764	3742891.864	441.00
LOCATION	L0007155	VOLUME	479706.106	3742891.904	441.01
LOCATION	L0007156	VOLUME	479702.452	3742891.767	441.02
LOCATION	L0007157	VOLUME	479698.797	3742891.623	441.03
LOCATION	L0007158	VOLUME	479695.142	3742891.480	441.04
LOCATION	L0007159	VOLUME	479691.487	3742891.337	441.06
LOCATION	L0007160	VOLUME	479687.832	3742891.194	441.07
LOCATION	L0007161	VOLUME	479684.178	3742891.050	441.08
LOCATION	L0007162	VOLUME	479680.523	3742890.907	441.09
LOCATION	L0007163	VOLUME	479677.037	3742891.611	441.11
LOCATION	L0007164	VOLUME	479673.715	3742893.142	441.12
LOCATION	L0007165	VOLUME	479670.394	3742894.674	441.13
LOCATION	L0007166	VOLUME	479667.072	3742896.206	441.14
LOCATION	L0007167	VOLUME	479664.716	3742898.814	441.15
LOCATION	L0007168	VOLUME	479662.833	3742901.950	441.16
LOCATION	L0007169	VOLUME	479660.951	3742905.086	441.16
LOCATION	L0007170	VOLUME	479659.068	3742908.221	441.17
LOCATION	L0007171	VOLUME	479657.185	3742911.357	441.17
LOCATION	L0007172	VOLUME	479655.302	3742914.493	441.17
LOCATION	L0007173	VOLUME	479653.419	3742917.629	441.17
LOCATION	L0007174	VOLUME	479651.536	3742920.764	441.17
LOCATION	L0007175	VOLUME	479649.653	3742923.900	441.18
LOCATION	L0007176	VOLUME	479647.770	3742927.036	441.18
LOCATION	L0007177	VOLUME	479645.887	3742930.171	441.18
LOCATION	L0007178	VOLUME	479644.004	3742933.307	441.17
LOCATION	L0007179	VOLUME	479642.122	3742936.443	441.17
LOCATION	L0007180	VOLUME	479640.239	3742939.579	441.17
LOCATION	L0007181	VOLUME	479638.356	3742942.714	441.17
LOCATION	L0007182	VOLUME	479636.473	3742945.850	441.17
LOCATION	L0007183	VOLUME	479634.590	3742948.986	441.18
LOCATION	L0007184	VOLUME	479632.988	3742952.266	441.19
LOCATION	L0007185	VOLUME	479631.526	3742955.619	441.20
LOCATION	L0007186	VOLUME	479630.065	3742958.972	441.20
LOCATION	L0007187	VOLUME	479628.604	3742962.325	441.21
LOCATION	L0007188	VOLUME	479627.142	3742965.678	441.23
LOCATION	L0007189	VOLUME	479625.681	3742969.031	441.24
LOCATION	L0007190	VOLUME	479624.220	3742972.384	441.25
LOCATION	L0007191	VOLUME	479622.758	3742975.737	441.26
LOCATION	L0007192	VOLUME	479621.297	3742979.090	441.28
LOCATION	L0007193	VOLUME	479619.836	3742982.443	441.29
LOCATION	L0007194	VOLUME	479618.374	3742985.796	441.30
LOCATION	L0007195	VOLUME	479622.030	3742985.779	441.28
LOCATION	L0007196	VOLUME	479625.688	3742985.762	441.26
LOCATION	L0007197	VOLUME	479629.345	3742985.744	441.24

LOCATION	VOLUME				
LOCATION L0007198	VOLUME	479633.003	3742985.726	441.22	
LOCATION L0007199	VOLUME	479636.660	3742985.708	441.21	
LOCATION L0007200	VOLUME	479638.686	3742987.339	441.20	
LOCATION L0007201	VOLUME	479638.703	3742990.996	441.21	
LOCATION L0007202	VOLUME	479638.720	3742994.654	441.22	
LOCATION L0007203	VOLUME	479638.736	3742998.311	441.23	
LOCATION L0007204	VOLUME	479638.753	3743001.969	441.24	
LOCATION L0007205	VOLUME	479638.770	3743005.626	441.26	
LOCATION L0007206	VOLUME	479638.787	3743009.284	441.26	
LOCATION L0007207	VOLUME	479638.804	3743012.941	441.27	
LOCATION L0007208	VOLUME	479638.821	3743016.599	441.28	
LOCATION L0007209	VOLUME	479638.838	3743020.257	441.29	
LOCATION L0007210	VOLUME	479638.855	3743023.914	441.30	
LOCATION L0007211	VOLUME	479638.872	3743027.572	441.31	
LOCATION L0007212	VOLUME	479638.889	3743031.229	441.32	
LOCATION L0007213	VOLUME	479638.906	3743034.887	441.33	
LOCATION L0007214	VOLUME	479638.922	3743038.544	441.34	
LOCATION L0007215	VOLUME	479638.749	3743042.013	441.36	
LOCATION L0007216	VOLUME	479635.091	3743042.039	441.36	
LOCATION L0007217	VOLUME	479631.434	3743042.065	441.37	
LOCATION L0007218	VOLUME	479627.776	3743042.091	441.38	
LOCATION L0007219	VOLUME	479624.119	3743042.116	441.39	
LOCATION L0007220	VOLUME	479620.461	3743042.142	441.40	
LOCATION L0007221	VOLUME	479616.804	3743042.168	441.42	
LOCATION L0007222	VOLUME	479613.146	3743042.193	441.43	
LOCATION L0007223	VOLUME	479609.489	3743042.219	441.44	
LOCATION L0007224	VOLUME	479605.831	3743042.245	441.45	
LOCATION L0007225	VOLUME	479602.174	3743042.270	441.47	
LOCATION L0007226	VOLUME	479598.516	3743042.296	441.50	
LOCATION L0007227	VOLUME	479594.859	3743042.322	441.52	
LOCATION L0007228	VOLUME	479591.201	3743042.347	441.55	
LOCATION L0007229	VOLUME	479587.543	3743042.373	441.58	
LOCATION L0007230	VOLUME	479583.886	3743042.399	441.60	

```

** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite from northern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 3.33E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 4
** 479889.642, 3743102.412, 441.04, 0.00, 1.70
** 479816.557, 3743101.433, 441.04, 0.00, 1.70
** 479778.789, 3743093.729, 441.12, 0.00, 1.70
** 479547.668, 3743097.718, 441.55, 0.00, 1.70
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LOCATION	L0007231	VOLUME	479887.813	3743102.387	441.03
LOCATION	L0007232	VOLUME	479884.156	3743102.338	441.04
LOCATION	L0007233	VOLUME	479880.498	3743102.289	441.03
LOCATION	L0007234	VOLUME	479876.841	3743102.240	441.02
LOCATION	L0007235	VOLUME	479873.184	3743102.191	441.01
LOCATION	L0007236	VOLUME	479869.527	3743102.142	441.00
LOCATION	L0007237	VOLUME	479865.869	3743102.094	441.00
LOCATION	L0007238	VOLUME	479862.212	3743102.045	440.99
LOCATION	L0007239	VOLUME	479858.555	3743101.996	440.99
LOCATION	L0007240	VOLUME	479854.897	3743101.947	440.99
LOCATION	L0007241	VOLUME	479851.240	3743101.898	441.00
LOCATION	L0007242	VOLUME	479847.583	3743101.849	441.00
LOCATION	L0007243	VOLUME	479843.926	3743101.800	441.01
LOCATION	L0007244	VOLUME	479840.268	3743101.751	441.02
LOCATION	L0007245	VOLUME	479836.611	3743101.702	441.02
LOCATION	L0007246	VOLUME	479832.954	3743101.653	441.03
LOCATION	L0007247	VOLUME	479829.297	3743101.604	441.03
LOCATION	L0007248	VOLUME	479825.639	3743101.555	441.03
LOCATION	L0007249	VOLUME	479821.982	3743101.506	441.04
LOCATION	L0007250	VOLUME	479818.325	3743101.457	441.04
LOCATION	L0007251	VOLUME	479814.705	3743101.056	441.05
LOCATION	L0007252	VOLUME	479811.122	3743100.324	441.05
LOCATION	L0007253	VOLUME	479807.538	3743099.593	441.06
LOCATION	L0007254	VOLUME	479803.954	3743098.862	441.07
LOCATION	L0007255	VOLUME	479800.370	3743098.131	441.08
LOCATION	L0007256	VOLUME	479796.786	3743097.400	441.09
LOCATION	L0007257	VOLUME	479793.203	3743096.669	441.10
LOCATION	L0007258	VOLUME	479789.619	3743095.938	441.10
LOCATION	L0007259	VOLUME	479786.035	3743095.207	441.11
LOCATION	L0007260	VOLUME	479782.451	3743094.476	441.12
LOCATION	L0007261	VOLUME	479778.867	3743093.745	441.13
LOCATION	L0007262	VOLUME	479775.212	3743093.791	441.14
LOCATION	L0007263	VOLUME	479771.555	3743093.854	441.15
LOCATION	L0007264	VOLUME	479767.898	3743093.917	441.16
LOCATION	L0007265	VOLUME	479764.241	3743093.980	441.17
LOCATION	L0007266	VOLUME	479760.584	3743094.043	441.18
LOCATION	L0007267	VOLUME	479756.927	3743094.106	441.19
LOCATION	L0007268	VOLUME	479753.270	3743094.169	441.18
LOCATION	L0007269	VOLUME	479749.613	3743094.233	441.18
LOCATION	L0007270	VOLUME	479745.956	3743094.296	441.17
LOCATION	L0007271	VOLUME	479742.298	3743094.359	441.16
LOCATION	L0007272	VOLUME	479738.641	3743094.422	441.16
LOCATION	L0007273	VOLUME	479734.984	3743094.485	441.15
LOCATION	L0007274	VOLUME	479731.327	3743094.548	441.15
LOCATION	L0007275	VOLUME	479727.670	3743094.611	441.15
LOCATION	L0007276	VOLUME	479724.013	3743094.674	441.15
LOCATION	L0007277	VOLUME	479720.356	3743094.738	441.15
LOCATION	L0007278	VOLUME	479716.699	3743094.801	441.15
LOCATION	L0007279	VOLUME	479713.042	3743094.864	441.15
LOCATION	L0007280	VOLUME	479709.385	3743094.927	441.15
LOCATION	L0007281	VOLUME	479705.728	3743094.990	441.16

LOCATION	L0007282	VOLUME	479702.071	3743095.053	441.16
LOCATION	L0007283	VOLUME	479698.414	3743095.116	441.17
LOCATION	L0007284	VOLUME	479694.757	3743095.179	441.18
LOCATION	L0007285	VOLUME	479691.100	3743095.242	441.19
LOCATION	L0007286	VOLUME	479687.443	3743095.306	441.20
LOCATION	L0007287	VOLUME	479683.786	3743095.369	441.20
LOCATION	L0007288	VOLUME	479680.129	3743095.432	441.21
LOCATION	L0007289	VOLUME	479676.471	3743095.495	441.21
LOCATION	L0007290	VOLUME	479672.814	3743095.558	441.22
LOCATION	L0007291	VOLUME	479669.157	3743095.621	441.22
LOCATION	L0007292	VOLUME	479665.500	3743095.684	441.23
LOCATION	L0007293	VOLUME	479661.843	3743095.747	441.23
LOCATION	L0007294	VOLUME	479658.186	3743095.810	441.23
LOCATION	L0007295	VOLUME	479654.529	3743095.874	441.24
LOCATION	L0007296	VOLUME	479650.872	3743095.937	441.24
LOCATION	L0007297	VOLUME	479647.215	3743096.000	441.24
LOCATION	L0007298	VOLUME	479643.558	3743096.063	441.24
LOCATION	L0007299	VOLUME	479639.901	3743096.126	441.24
LOCATION	L0007300	VOLUME	479636.244	3743096.189	441.24
LOCATION	L0007301	VOLUME	479632.587	3743096.252	441.24
LOCATION	L0007302	VOLUME	479628.930	3743096.315	441.24
LOCATION	L0007303	VOLUME	479625.273	3743096.379	441.25
LOCATION	L0007304	VOLUME	479621.616	3743096.442	441.26
LOCATION	L0007305	VOLUME	479617.959	3743096.505	441.27
LOCATION	L0007306	VOLUME	479614.302	3743096.568	441.28
LOCATION	L0007307	VOLUME	479610.644	3743096.631	441.29
LOCATION	L0007308	VOLUME	479606.987	3743096.694	441.30
LOCATION	L0007309	VOLUME	479603.330	3743096.757	441.31
LOCATION	L0007310	VOLUME	479599.673	3743096.820	441.33
LOCATION	L0007311	VOLUME	479596.016	3743096.883	441.34
LOCATION	L0007312	VOLUME	479592.359	3743096.947	441.35
LOCATION	L0007313	VOLUME	479588.702	3743097.010	441.36
LOCATION	L0007314	VOLUME	479585.045	3743097.073	441.38
LOCATION	L0007315	VOLUME	479581.388	3743097.136	441.39
LOCATION	L0007316	VOLUME	479577.731	3743097.199	441.40
LOCATION	L0007317	VOLUME	479574.074	3743097.262	441.42
LOCATION	L0007318	VOLUME	479570.417	3743097.325	441.44
LOCATION	L0007319	VOLUME	479566.760	3743097.388	441.47
LOCATION	L0007320	VOLUME	479563.103	3743097.451	441.49
LOCATION	L0007321	VOLUME	479559.446	3743097.515	441.51
LOCATION	L0007322	VOLUME	479555.789	3743097.578	441.53
LOCATION	L0007323	VOLUME	479552.132	3743097.641	441.55
LOCATION	L0007324	VOLUME	479548.475	3743097.704	441.55

\*\* End of LINE VOLUME Source ID = SLINE2

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

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

\*\* PREFIX

\*\* Length of Side = 3.66

\*\* Configuration = Adjacent



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** Emission Rate = 1.21E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 479890.384, 3742886.270, 440.49, 0.00, 1.70
** 479890.599, 3743102.594, 441.04, 0.00, 1.70
**

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LOCATION L0007511    VOLUME  479890.386 3742888.098 440.47
LOCATION L0007512    VOLUME  479890.390 3742891.756 440.46
LOCATION L0007513    VOLUME  479890.393 3742895.414 440.46
LOCATION L0007514    VOLUME  479890.397 3742899.071 440.45
LOCATION L0007515    VOLUME  479890.401 3742902.729 440.45
LOCATION L0007516    VOLUME  479890.404 3742906.386 440.44
LOCATION L0007517    VOLUME  479890.408 3742910.044 440.44
LOCATION L0007518    VOLUME  479890.412 3742913.702 440.43
LOCATION L0007519    VOLUME  479890.415 3742917.359 440.44
LOCATION L0007520    VOLUME  479890.419 3742921.017 440.44
LOCATION L0007521    VOLUME  479890.422 3742924.674 440.45
LOCATION L0007522    VOLUME  479890.426 3742928.332 440.45
LOCATION L0007523    VOLUME  479890.430 3742931.990 440.45
LOCATION L0007524    VOLUME  479890.433 3742935.647 440.46
LOCATION L0007525    VOLUME  479890.437 3742939.305 440.46
LOCATION L0007526    VOLUME  479890.441 3742942.962 440.47
LOCATION L0007527    VOLUME  479890.444 3742946.620 440.47
LOCATION L0007528    VOLUME  479890.448 3742950.278 440.48
LOCATION L0007529    VOLUME  479890.452 3742953.935 440.48
LOCATION L0007530    VOLUME  479890.455 3742957.593 440.49
LOCATION L0007531    VOLUME  479890.459 3742961.250 440.49
LOCATION L0007532    VOLUME  479890.462 3742964.908 440.50
LOCATION L0007533    VOLUME  479890.466 3742968.566 440.50
LOCATION L0007534    VOLUME  479890.470 3742972.223 440.51
LOCATION L0007535    VOLUME  479890.473 3742975.881 440.52
LOCATION L0007536    VOLUME  479890.477 3742979.538 440.52
LOCATION L0007537    VOLUME  479890.481 3742983.196 440.53
LOCATION L0007538    VOLUME  479890.484 3742986.854 440.53
LOCATION L0007539    VOLUME  479890.488 3742990.511 440.54
LOCATION L0007540    VOLUME  479890.491 3742994.169 440.54
LOCATION L0007541    VOLUME  479890.495 3742997.826 440.55
LOCATION L0007542    VOLUME  479890.499 3743001.484 440.55
LOCATION L0007543    VOLUME  479890.502 3743005.142 440.56
LOCATION L0007544    VOLUME  479890.506 3743008.799 440.57
LOCATION L0007545    VOLUME  479890.510 3743012.457 440.59
LOCATION L0007546    VOLUME  479890.513 3743016.114 440.61
LOCATION L0007547    VOLUME  479890.517 3743019.772 440.62
LOCATION L0007548    VOLUME  479890.520 3743023.430 440.64
LOCATION L0007549    VOLUME  479890.524 3743027.087 440.65
LOCATION L0007550    VOLUME  479890.528 3743030.745 440.67
LOCATION L0007551    VOLUME  479890.531 3743034.402 440.69
LOCATION L0007552    VOLUME  479890.535 3743038.060 440.70
LOCATION L0007553    VOLUME  479890.539 3743041.718 440.73

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LOCATION	VOLUME	479890.542	3743045.375	440.75
LOCATION L0007554	VOLUME	479890.542	3743045.375	440.75
LOCATION L0007555	VOLUME	479890.546	3743049.033	440.77
LOCATION L0007556	VOLUME	479890.550	3743052.690	440.79
LOCATION L0007557	VOLUME	479890.553	3743056.348	440.81
LOCATION L0007558	VOLUME	479890.557	3743060.006	440.83
LOCATION L0007559	VOLUME	479890.560	3743063.663	440.85
LOCATION L0007560	VOLUME	479890.564	3743067.321	440.87
LOCATION L0007561	VOLUME	479890.568	3743070.978	440.89
LOCATION L0007562	VOLUME	479890.571	3743074.636	440.90
LOCATION L0007563	VOLUME	479890.575	3743078.294	440.92
LOCATION L0007564	VOLUME	479890.579	3743081.951	440.93
LOCATION L0007565	VOLUME	479890.582	3743085.609	440.95
LOCATION L0007566	VOLUME	479890.586	3743089.266	440.96
LOCATION L0007567	VOLUME	479890.589	3743092.924	440.98
LOCATION L0007568	VOLUME	479890.593	3743096.582	441.00
LOCATION L0007569	VOLUME	479890.597	3743100.239	441.00

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Offsite Redlands Ave north of northern project driveway

\*\* PREFIX

\*\* Length of Side = 3.66

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.17E-06

\*\* Elevated

\*\* Vertical Dimension = 3.66

\*\* SZINIT = 0.85

\*\* Nodes = 5

\*\* 479890.143, 3743103.577, 441.04, 0.00, 1.70

\*\* 479896.144, 3743335.805, 440.42, 0.00, 1.70

\*\* 479904.078, 3743363.665, 440.21, 0.00, 1.70

\*\* 479907.418, 3743562.283, 439.77, 0.00, 1.70

\*\* 479907.757, 3743565.880, 439.77, 0.00, 1.70

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LOCATION L0007570	VOLUME	479890.190	3743105.405	441.00
LOCATION L0007571	VOLUME	479890.285	3743109.061	441.00
LOCATION L0007572	VOLUME	479890.379	3743112.717	440.99
LOCATION L0007573	VOLUME	479890.474	3743116.374	440.99
LOCATION L0007574	VOLUME	479890.568	3743120.030	440.99
LOCATION L0007575	VOLUME	479890.663	3743123.687	440.99
LOCATION L0007576	VOLUME	479890.757	3743127.343	440.99
LOCATION L0007577	VOLUME	479890.852	3743130.999	440.98
LOCATION L0007578	VOLUME	479890.946	3743134.656	440.97
LOCATION L0007579	VOLUME	479891.041	3743138.312	440.97
LOCATION L0007580	VOLUME	479891.135	3743141.969	440.96
LOCATION L0007581	VOLUME	479891.230	3743145.625	440.95
LOCATION L0007582	VOLUME	479891.324	3743149.281	440.95
LOCATION L0007583	VOLUME	479891.419	3743152.938	440.94
LOCATION L0007584	VOLUME	479891.513	3743156.594	440.93
LOCATION L0007585	VOLUME	479891.607	3743160.250	440.92

LOCATION	L0007586	VOLUME	479891.702	3743163.907	440.91
LOCATION	L0007587	VOLUME	479891.796	3743167.563	440.90
LOCATION	L0007588	VOLUME	479891.891	3743171.220	440.89
LOCATION	L0007589	VOLUME	479891.985	3743174.876	440.88
LOCATION	L0007590	VOLUME	479892.080	3743178.532	440.87
LOCATION	L0007591	VOLUME	479892.174	3743182.189	440.86
LOCATION	L0007592	VOLUME	479892.269	3743185.845	440.85
LOCATION	L0007593	VOLUME	479892.363	3743189.501	440.84
LOCATION	L0007594	VOLUME	479892.458	3743193.158	440.83
LOCATION	L0007595	VOLUME	479892.552	3743196.814	440.83
LOCATION	L0007596	VOLUME	479892.647	3743200.471	440.82
LOCATION	L0007597	VOLUME	479892.741	3743204.127	440.81
LOCATION	L0007598	VOLUME	479892.836	3743207.783	440.81
LOCATION	L0007599	VOLUME	479892.930	3743211.440	440.80
LOCATION	L0007600	VOLUME	479893.025	3743215.096	440.79
LOCATION	L0007601	VOLUME	479893.119	3743218.752	440.79
LOCATION	L0007602	VOLUME	479893.214	3743222.409	440.78
LOCATION	L0007603	VOLUME	479893.308	3743226.065	440.77
LOCATION	L0007604	VOLUME	479893.403	3743229.722	440.77
LOCATION	L0007605	VOLUME	479893.497	3743233.378	440.76
LOCATION	L0007606	VOLUME	479893.592	3743237.034	440.75
LOCATION	L0007607	VOLUME	479893.686	3743240.691	440.75
LOCATION	L0007608	VOLUME	479893.780	3743244.347	440.74
LOCATION	L0007609	VOLUME	479893.875	3743248.004	440.73
LOCATION	L0007610	VOLUME	479893.969	3743251.660	440.73
LOCATION	L0007611	VOLUME	479894.064	3743255.316	440.72
LOCATION	L0007612	VOLUME	479894.158	3743258.973	440.70
LOCATION	L0007613	VOLUME	479894.253	3743262.629	440.69
LOCATION	L0007614	VOLUME	479894.347	3743266.285	440.68
LOCATION	L0007615	VOLUME	479894.442	3743269.942	440.67
LOCATION	L0007616	VOLUME	479894.536	3743273.598	440.65
LOCATION	L0007617	VOLUME	479894.631	3743277.255	440.64
LOCATION	L0007618	VOLUME	479894.725	3743280.911	440.63
LOCATION	L0007619	VOLUME	479894.820	3743284.567	440.62
LOCATION	L0007620	VOLUME	479894.914	3743288.224	440.61
LOCATION	L0007621	VOLUME	479895.009	3743291.880	440.60
LOCATION	L0007622	VOLUME	479895.103	3743295.536	440.59
LOCATION	L0007623	VOLUME	479895.198	3743299.193	440.57
LOCATION	L0007624	VOLUME	479895.292	3743302.849	440.56
LOCATION	L0007625	VOLUME	479895.387	3743306.506	440.55
LOCATION	L0007626	VOLUME	479895.481	3743310.162	440.54
LOCATION	L0007627	VOLUME	479895.576	3743313.818	440.53
LOCATION	L0007628	VOLUME	479895.670	3743317.475	440.51
LOCATION	L0007629	VOLUME	479895.765	3743321.131	440.50
LOCATION	L0007630	VOLUME	479895.859	3743324.787	440.48
LOCATION	L0007631	VOLUME	479895.953	3743328.444	440.47
LOCATION	L0007632	VOLUME	479896.048	3743332.100	440.45
LOCATION	L0007633	VOLUME	479896.142	3743335.757	440.44
LOCATION	L0007634	VOLUME	479897.132	3743339.276	440.42
LOCATION	L0007635	VOLUME	479898.134	3743342.794	440.40
LOCATION	L0007636	VOLUME	479899.136	3743346.312	440.38

LOCATION	L0007637	VOLUME	479900.138	3743349.829	440.35
LOCATION	L0007638	VOLUME	479901.139	3743353.347	440.32
LOCATION	L0007639	VOLUME	479902.141	3743356.865	440.29
LOCATION	L0007640	VOLUME	479903.143	3743360.383	440.27
LOCATION	L0007641	VOLUME	479904.082	3743363.910	440.25
LOCATION	L0007642	VOLUME	479904.144	3743367.567	440.22
LOCATION	L0007643	VOLUME	479904.205	3743371.224	440.19
LOCATION	L0007644	VOLUME	479904.267	3743374.881	440.17
LOCATION	L0007645	VOLUME	479904.328	3743378.538	440.13
LOCATION	L0007646	VOLUME	479904.390	3743382.195	440.10
LOCATION	L0007647	VOLUME	479904.451	3743385.852	440.06
LOCATION	L0007648	VOLUME	479904.513	3743389.509	440.03
LOCATION	L0007649	VOLUME	479904.574	3743393.166	439.99
LOCATION	L0007650	VOLUME	479904.636	3743396.823	439.96
LOCATION	L0007651	VOLUME	479904.697	3743400.480	439.93
LOCATION	L0007652	VOLUME	479904.758	3743404.138	439.89
LOCATION	L0007653	VOLUME	479904.820	3743407.795	439.88
LOCATION	L0007654	VOLUME	479904.881	3743411.452	439.87
LOCATION	L0007655	VOLUME	479904.943	3743415.109	439.87
LOCATION	L0007656	VOLUME	479905.004	3743418.766	439.86
LOCATION	L0007657	VOLUME	479905.066	3743422.423	439.85
LOCATION	L0007658	VOLUME	479905.127	3743426.080	439.85
LOCATION	L0007659	VOLUME	479905.189	3743429.737	439.84
LOCATION	L0007660	VOLUME	479905.250	3743433.394	439.83
LOCATION	L0007661	VOLUME	479905.312	3743437.051	439.83
LOCATION	L0007662	VOLUME	479905.373	3743440.708	439.85
LOCATION	L0007663	VOLUME	479905.435	3743444.365	439.86
LOCATION	L0007664	VOLUME	479905.496	3743448.023	439.88
LOCATION	L0007665	VOLUME	479905.558	3743451.680	439.90
LOCATION	L0007666	VOLUME	479905.619	3743455.337	439.91
LOCATION	L0007667	VOLUME	479905.681	3743458.994	439.93
LOCATION	L0007668	VOLUME	479905.742	3743462.651	439.94
LOCATION	L0007669	VOLUME	479905.804	3743466.308	439.96
LOCATION	L0007670	VOLUME	479905.865	3743469.965	439.95
LOCATION	L0007671	VOLUME	479905.927	3743473.622	439.94
LOCATION	L0007672	VOLUME	479905.988	3743477.279	439.93
LOCATION	L0007673	VOLUME	479906.050	3743480.936	439.91
LOCATION	L0007674	VOLUME	479906.111	3743484.593	439.90
LOCATION	L0007675	VOLUME	479906.173	3743488.250	439.89
LOCATION	L0007676	VOLUME	479906.234	3743491.908	439.88
LOCATION	L0007677	VOLUME	479906.296	3743495.565	439.86
LOCATION	L0007678	VOLUME	479906.357	3743499.222	439.85
LOCATION	L0007679	VOLUME	479906.419	3743502.879	439.84
LOCATION	L0007680	VOLUME	479906.480	3743506.536	439.84
LOCATION	L0007681	VOLUME	479906.542	3743510.193	439.83
LOCATION	L0007682	VOLUME	479906.603	3743513.850	439.82
LOCATION	L0007683	VOLUME	479906.665	3743517.507	439.81
LOCATION	L0007684	VOLUME	479906.726	3743521.164	439.80
LOCATION	L0007685	VOLUME	479906.788	3743524.821	439.79
LOCATION	L0007686	VOLUME	479906.849	3743528.478	439.78
LOCATION	L0007687	VOLUME	479906.911	3743532.135	439.78

LOCATION	L0007688	VOLUME	479906.972	3743535.792	439.77
LOCATION	L0007689	VOLUME	479907.034	3743539.450	439.77
LOCATION	L0007690	VOLUME	479907.095	3743543.107	439.76
LOCATION	L0007691	VOLUME	479907.157	3743546.764	439.75
LOCATION	L0007692	VOLUME	479907.218	3743550.421	439.75
LOCATION	L0007693	VOLUME	479907.280	3743554.078	439.74
LOCATION	L0007694	VOLUME	479907.341	3743557.735	439.74
LOCATION	L0007695	VOLUME	479907.403	3743561.392	439.73
LOCATION	L0007696	VOLUME	479907.678	3743565.037	439.73
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	479782.060	3742912.560	440.710
** DESCRSRC Idle 1					
LOCATION	STCK2	POINT	479715.190	3742912.990	440.960
** DESCRSRC Idle 2					
LOCATION	STCK3	POINT	479747.590	3742881.180	440.910
** DESCRSRC Idle 3					
LOCATION	STCK4	POINT	479780.300	3743074.970	441.090
** DESCRSRC Idle 4					
LOCATION	STCK5	POINT	479686.860	3743078.130	441.280
** DESCRSRC Idle 5					
LOCATION	STCK6	POINT	479594.670	3743090.200	441.400
** DESCRSRC Idle 6					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0007106	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007107	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007108	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007109	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007110	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007111	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007112	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007113	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007114	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007115	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007116	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007117	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007118	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007119	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007120	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007121	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007122	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007123	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007124	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007125	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007126	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007127	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007128	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007129	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007130	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007131	0.0000003552	0.00	1.70	6.52
SRCPARAM	L0007132	0.0000003552	0.00	1.70	6.52



SRCPARAM	L0007184	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007185	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007186	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007187	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007188	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007189	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007190	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007191	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007192	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007193	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007194	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007195	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007196	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007197	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007198	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007199	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007200	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007201	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007202	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007203	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007204	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007205	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007206	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007207	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007208	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007209	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007210	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007211	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007212	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007213	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007214	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007215	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007216	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007217	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007218	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007219	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007220	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007221	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007222	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007223	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007224	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007225	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007226	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007227	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007228	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007229	0.00000003552	0.00	1.70	6.52
SRCPARAM	L0007230	0.00000003552	0.00	1.70	6.52

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 \*\* LINE VOLUME Source ID = SLINE2

SRCPARAM	L0007231	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007232	0.00000003543	0.00	1.70	6.52





SRCPARAM	L0007284	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007285	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007286	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007287	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007288	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007289	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007290	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007291	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007292	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007293	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007294	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007295	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007296	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007297	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007298	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007299	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007300	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007301	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007302	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007303	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007304	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007305	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007306	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007307	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007308	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007309	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007310	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007311	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007312	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007313	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007314	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007315	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007316	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007317	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007318	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007319	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007320	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007321	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007322	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007323	0.00000003543	0.00	1.70	6.52
SRCPARAM	L0007324	0.00000003543	0.00	1.70	6.52

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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM	L0007511	0.00000002051	0.00	1.70	0.85
SRCPARAM	L0007512	0.00000002051	0.00	1.70	0.85
SRCPARAM	L0007513	0.00000002051	0.00	1.70	0.85
SRCPARAM	L0007514	0.00000002051	0.00	1.70	0.85
SRCPARAM	L0007515	0.00000002051	0.00	1.70	0.85
SRCPARAM	L0007516	0.00000002051	0.00	1.70	0.85
SRCPARAM	L0007517	0.00000002051	0.00	1.70	0.85
SRCPARAM	L0007518	0.00000002051	0.00	1.70	0.85







SRCPARAM	L0007670	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007671	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007672	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007673	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007674	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007675	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007676	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007677	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007678	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007679	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007680	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007681	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007682	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007683	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007684	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007685	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007686	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007687	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007688	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007689	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007690	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007691	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007692	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007693	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007694	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007695	0.00000004071	0.00	1.70	0.85
SRCPARAM	L0007696	0.00000004071	0.00	1.70	0.85

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SRCPARAM	STCK1	0.0000116	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000116	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000116	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000116	3.658	366.000	51.90000	0.100
SRCPARAM	STCK5	0.0000116	3.658	366.000	51.90000	0.100
SRCPARAM	STCK6	0.0000116	3.658	366.000	51.90000	0.100

\*\* Building Downwash \*\*

BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02

BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	14.02	14.02	14.02	14.02	0.00	0.00
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01

BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	186.37	194.99	219.24	236.83
BUILDWID	STCK6	247.22	250.11	246.23	238.75	0.00	0.00
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29

BUILDLLEN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	205.01	228.19	246.99	258.29
BUILDLLEN	STCK6	261.74	257.23	244.91	225.15	0.00	0.00
XBADJ	STCK1	-14.33	-35.21	-55.02	-73.16	-89.07	-103.12
XBADJ	STCK1	-117.90	-129.11	-136.39	-161.49	-181.67	-196.34
XBADJ	STCK1	-205.04	-207.52	-203.68	-193.66	-177.76	-174.35
XBADJ	STCK1	-180.65	-184.03	-181.81	-174.07	-161.04	-143.11
XBADJ	STCK1	-120.84	-94.90	-68.62	-66.71	-65.32	-61.95
XBADJ	STCK1	-56.69	-49.72	-41.23	-31.49	-20.79	-12.02
XBADJ	STCK2	-3.15	-12.75	-21.96	-30.50	-38.12	-45.42
XBADJ	STCK2	-55.21	-63.33	-69.52	-95.56	-118.69	-138.22
XBADJ	STCK2	-153.54	-164.20	-169.88	-170.39	-165.72	-173.92
XBADJ	STCK2	-191.84	-206.49	-214.87	-216.72	-211.99	-200.81
XBADJ	STCK2	-183.53	-160.68	-135.49	-132.64	-128.31	-120.07
XBADJ	STCK2	-108.20	-93.03	-75.03	-54.76	-32.82	-12.45
XBADJ	STCK3	22.56	6.07	-10.61	-26.96	-42.49	-57.58
XBADJ	STCK3	-74.78	-89.71	0.00	0.00	-160.02	-182.18
XBADJ	STCK3	-198.81	-209.40	-213.63	-211.36	-202.67	-205.73
XBADJ	STCK3	-217.54	-225.30	-226.22	-220.26	-207.61	-188.66
XBADJ	STCK3	-163.96	-134.29	0.00	0.00	-86.98	-76.11
XBADJ	STCK3	-62.93	-47.83	-31.29	-13.79	4.13	19.36
XBADJ	STCK4	-173.97	-187.23	-194.79	-196.44	-192.12	-182.80
XBADJ	STCK4	-171.80	-155.58	-134.63	-131.55	-124.47	-113.61
XBADJ	STCK4	-99.30	-81.97	-62.15	-40.45	-17.51	-11.94
XBADJ	STCK4	-21.02	-32.01	-42.04	-50.79	-57.99	-63.43
XBADJ	STCK4	-66.95	-68.43	-70.38	-96.64	-122.52	-144.68
XBADJ	STCK4	-162.44	-175.26	-182.76	-184.70	-181.04	-174.43
XBADJ	STCK5	-160.86	-158.24	-150.81	-138.80	-122.57	-103.46
XBADJ	STCK5	-85.07	-64.11	-41.19	-38.98	-35.59	-31.11
XBADJ	STCK5	-25.69	-19.49	-12.70	-5.52	1.83	-8.78
XBADJ	STCK5	-34.13	-61.00	-86.02	-108.43	-127.54	-142.77
XBADJ	STCK5	-153.67	-159.90	-163.82	-189.21	-211.41	-227.18
XBADJ	STCK5	-236.05	-237.74	-232.22	-219.63	-200.38	-177.59
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	-256.01	-282.10	-302.17	-313.05
XBADJ	STCK6	-314.43	-306.25	-288.76	-262.50	0.00	0.00



YBADJ	STCK1	47.39	58.18	67.20	74.18	78.90	81.23
YBADJ	STCK1	81.09	78.48	81.17	83.16	74.41	63.39
YBADJ	STCK1	50.46	35.98	20.00	1.47	-17.11	-33.89
YBADJ	STCK1	-47.39	-58.18	-67.20	-74.18	-78.90	-81.23
YBADJ	STCK1	-81.09	-78.48	-81.17	-83.16	-74.41	-63.39
YBADJ	STCK1	-50.46	-35.98	-20.00	-1.47	17.11	33.89
YBADJ	STCK2	-18.54	-4.81	9.07	22.67	35.59	47.42
YBADJ	STCK2	57.81	66.45	80.74	94.35	96.87	96.46
YBADJ	STCK2	93.11	86.93	77.69	64.16	48.67	32.98
YBADJ	STCK2	18.54	4.81	-9.07	-22.67	-35.59	-47.42
YBADJ	STCK2	-57.81	-66.45	-80.74	-94.35	-96.87	-96.46
YBADJ	STCK2	-93.11	-86.93	-77.69	-64.16	-48.67	-32.98
YBADJ	STCK3	18.89	36.52	53.04	67.94	80.78	91.17
YBADJ	STCK3	98.79	103.40	0.00	0.00	115.68	107.81
YBADJ	STCK3	96.65	82.56	65.54	44.59	22.29	0.58
YBADJ	STCK3	-18.89	-36.52	-53.04	-67.94	-80.78	-91.17
YBADJ	STCK3	-98.79	-103.40	0.00	0.00	-115.68	-107.81
YBADJ	STCK3	-96.65	-82.56	-65.54	-44.59	-22.29	-0.58
YBADJ	STCK4	17.45	0.98	-15.53	-31.57	-46.64	-60.30
YBADJ	STCK4	-72.13	-81.76	-81.24	-76.48	-77.61	-76.38
YBADJ	STCK4	-72.83	-67.06	-59.68	-52.43	-43.57	-32.12
YBADJ	STCK4	-17.45	-0.97	15.53	31.57	46.64	60.30
YBADJ	STCK4	72.13	81.76	81.24	76.48	77.61	76.38
YBADJ	STCK4	72.83	67.06	59.68	52.43	43.57	32.12
YBADJ	STCK5	-75.12	-87.91	-98.03	-105.18	-109.13	-109.76
YBADJ	STCK5	-107.06	-101.10	-84.40	-63.36	-48.62	-32.39
YBADJ	STCK5	-15.19	2.48	19.66	34.30	47.90	61.32
YBADJ	STCK5	75.12	87.91	98.03	105.18	109.13	109.76
YBADJ	STCK5	107.06	101.10	84.40	63.36	48.62	32.39
YBADJ	STCK5	15.19	-2.48	-19.66	-34.30	-47.90	-61.32
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	96.47	59.24	28.43	-3.25
YBADJ	STCK6	-34.83	-65.35	-93.46	-116.80	0.00	0.00

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

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RE STARTING  
INCLUDED "19370 Redlands Ave West Industrial.rou"  
RE FINISHED

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\*\*\*\*\*  
\*\* 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 "19370 Redlands Ave West Industrial.AD\PE00GALL.PLT" 31  
SUMMFILE "19370 Redlands Ave West 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           8 Warning Message(s)  
A Total of           0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320	946	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	947	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	948	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	949	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	950	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	951	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1189	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50

ME W187 1189 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
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\*\*\* MODELOPTs: RegDEFAULT 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 411 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: 411 Source(s); 1 Source Group(s); and 448 Receptor(s)

with: 6 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 405 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 = 4.3 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 19370 Redlands Ave West Industrial.err  
 \*\*File for Summary of Results: 19370 Redlands Ave West Industrial.sum

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
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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	0.11600E-04	479782.1	3742912.6	440.7	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.11600E-04	479715.2	3742913.0	441.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.11600E-04	479747.6	3742881.2	440.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.11600E-04	479780.3	3743075.0	441.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.11600E-04	479686.9	3743078.1	441.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.11600E-04	479594.7	3743090.2	441.4	3.66	366.00	51.90	0.10	YES	YES	NO	

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0007106	0	0.35520E-07	479885.1	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007107	0	0.35520E-07	479881.4	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007108	0	0.35520E-07	479877.7	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007109	0	0.35520E-07	479874.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007110	0	0.35520E-07	479870.4	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007111	0	0.35520E-07	479866.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007112	0	0.35520E-07	479863.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007113	0	0.35520E-07	479859.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007114	0	0.35520E-07	479855.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007115	0	0.35520E-07	479852.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007116	0	0.35520E-07	479848.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007117	0	0.35520E-07	479844.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007118	0	0.35520E-07	479841.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007119	0	0.35520E-07	479837.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007120	0	0.35520E-07	479833.9	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007121	0	0.35520E-07	479830.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007122	0	0.35520E-07	479826.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007123	0	0.35520E-07	479822.9	3742886.1	440.6	0.00	1.70	6.52	YES	
L0007124	0	0.35520E-07	479819.2	3742886.1	440.6	0.00	1.70	6.52	YES	
L0007125	0	0.35520E-07	479815.6	3742886.3	440.6	0.00	1.70	6.52	YES	
L0007126	0	0.35520E-07	479811.9	3742886.7	440.6	0.00	1.70	6.52	YES	
L0007127	0	0.35520E-07	479808.3	3742887.1	440.7	0.00	1.70	6.52	YES	
L0007128	0	0.35520E-07	479804.7	3742887.4	440.7	0.00	1.70	6.52	YES	
L0007129	0	0.35520E-07	479801.0	3742887.8	440.7	0.00	1.70	6.52	YES	
L0007130	0	0.35520E-07	479797.4	3742888.2	440.7	0.00	1.70	6.52	YES	
L0007131	0	0.35520E-07	479793.7	3742888.6	440.7	0.00	1.70	6.52	YES	
L0007132	0	0.35520E-07	479790.1	3742888.9	440.7	0.00	1.70	6.52	YES	
L0007133	0	0.35520E-07	479786.5	3742889.3	440.8	0.00	1.70	6.52	YES	
L0007134	0	0.35520E-07	479782.8	3742889.7	440.8	0.00	1.70	6.52	YES	
L0007135	0	0.35520E-07	479779.2	3742890.1	440.8	0.00	1.70	6.52	YES	
L0007136	0	0.35520E-07	479775.6	3742890.4	440.8	0.00	1.70	6.52	YES	
L0007137	0	0.35520E-07	479771.9	3742890.8	440.8	0.00	1.70	6.52	YES	
L0007138	0	0.35520E-07	479768.3	3742891.2	440.8	0.00	1.70	6.52	YES	
L0007139	0	0.35520E-07	479764.6	3742891.3	440.8	0.00	1.70	6.52	YES	
L0007140	0	0.35520E-07	479761.0	3742891.3	440.8	0.00	1.70	6.52	YES	
L0007141	0	0.35520E-07	479757.3	3742891.3	440.9	0.00	1.70	6.52	YES	
L0007142	0	0.35520E-07	479753.7	3742891.4	440.9	0.00	1.70	6.52	YES	

L0007143	0	0.35520E-07	479750.0	3742891.4	440.9	0.00	1.70	6.52	YES
L0007144	0	0.35520E-07	479746.3	3742891.5	440.9	0.00	1.70	6.52	YES
L0007145	0	0.35520E-07	479742.7	3742891.5	440.9	0.00	1.70	6.52	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0007146	0	0.35520E-07	479739.0	3742891.5	440.9	0.00	1.70	6.52	YES	
L0007147	0	0.35520E-07	479735.4	3742891.6	440.9	0.00	1.70	6.52	YES	
L0007148	0	0.35520E-07	479731.7	3742891.6	440.9	0.00	1.70	6.52	YES	
L0007149	0	0.35520E-07	479728.1	3742891.7	440.9	0.00	1.70	6.52	YES	
L0007150	0	0.35520E-07	479724.4	3742891.7	441.0	0.00	1.70	6.52	YES	
L0007151	0	0.35520E-07	479720.7	3742891.7	441.0	0.00	1.70	6.52	YES	
L0007152	0	0.35520E-07	479717.1	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007153	0	0.35520E-07	479713.4	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007154	0	0.35520E-07	479709.8	3742891.9	441.0	0.00	1.70	6.52	YES	
L0007155	0	0.35520E-07	479706.1	3742891.9	441.0	0.00	1.70	6.52	YES	
L0007156	0	0.35520E-07	479702.5	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007157	0	0.35520E-07	479698.8	3742891.6	441.0	0.00	1.70	6.52	YES	
L0007158	0	0.35520E-07	479695.1	3742891.5	441.0	0.00	1.70	6.52	YES	
L0007159	0	0.35520E-07	479691.5	3742891.3	441.1	0.00	1.70	6.52	YES	
L0007160	0	0.35520E-07	479687.8	3742891.2	441.1	0.00	1.70	6.52	YES	
L0007161	0	0.35520E-07	479684.2	3742891.0	441.1	0.00	1.70	6.52	YES	
L0007162	0	0.35520E-07	479680.5	3742890.9	441.1	0.00	1.70	6.52	YES	
L0007163	0	0.35520E-07	479677.0	3742891.6	441.1	0.00	1.70	6.52	YES	
L0007164	0	0.35520E-07	479673.7	3742893.1	441.1	0.00	1.70	6.52	YES	
L0007165	0	0.35520E-07	479670.4	3742894.7	441.1	0.00	1.70	6.52	YES	
L0007166	0	0.35520E-07	479667.1	3742896.2	441.1	0.00	1.70	6.52	YES	
L0007167	0	0.35520E-07	479664.7	3742898.8	441.2	0.00	1.70	6.52	YES	
L0007168	0	0.35520E-07	479662.8	3742901.9	441.2	0.00	1.70	6.52	YES	
L0007169	0	0.35520E-07	479661.0	3742905.1	441.2	0.00	1.70	6.52	YES	
L0007170	0	0.35520E-07	479659.1	3742908.2	441.2	0.00	1.70	6.52	YES	
L0007171	0	0.35520E-07	479657.2	3742911.4	441.2	0.00	1.70	6.52	YES	
L0007172	0	0.35520E-07	479655.3	3742914.5	441.2	0.00	1.70	6.52	YES	
L0007173	0	0.35520E-07	479653.4	3742917.6	441.2	0.00	1.70	6.52	YES	
L0007174	0	0.35520E-07	479651.5	3742920.8	441.2	0.00	1.70	6.52	YES	
L0007175	0	0.35520E-07	479649.7	3742923.9	441.2	0.00	1.70	6.52	YES	
L0007176	0	0.35520E-07	479647.8	3742927.0	441.2	0.00	1.70	6.52	YES	
L0007177	0	0.35520E-07	479645.9	3742930.2	441.2	0.00	1.70	6.52	YES	
L0007178	0	0.35520E-07	479644.0	3742933.3	441.2	0.00	1.70	6.52	YES	
L0007179	0	0.35520E-07	479642.1	3742936.4	441.2	0.00	1.70	6.52	YES	

L0007180	0	0.35520E-07	479640.2	3742939.6	441.2	0.00	1.70	6.52	YES
L0007181	0	0.35520E-07	479638.4	3742942.7	441.2	0.00	1.70	6.52	YES
L0007182	0	0.35520E-07	479636.5	3742945.8	441.2	0.00	1.70	6.52	YES
L0007183	0	0.35520E-07	479634.6	3742949.0	441.2	0.00	1.70	6.52	YES
L0007184	0	0.35520E-07	479633.0	3742952.3	441.2	0.00	1.70	6.52	YES
L0007185	0	0.35520E-07	479631.5	3742955.6	441.2	0.00	1.70	6.52	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
L0007186	0	0.35520E-07	479630.1	3742959.0	441.2	0.00	1.70	6.52	YES	
L0007187	0	0.35520E-07	479628.6	3742962.3	441.2	0.00	1.70	6.52	YES	
L0007188	0	0.35520E-07	479627.1	3742965.7	441.2	0.00	1.70	6.52	YES	
L0007189	0	0.35520E-07	479625.7	3742969.0	441.2	0.00	1.70	6.52	YES	
L0007190	0	0.35520E-07	479624.2	3742972.4	441.2	0.00	1.70	6.52	YES	
L0007191	0	0.35520E-07	479622.8	3742975.7	441.3	0.00	1.70	6.52	YES	
L0007192	0	0.35520E-07	479621.3	3742979.1	441.3	0.00	1.70	6.52	YES	
L0007193	0	0.35520E-07	479619.8	3742982.4	441.3	0.00	1.70	6.52	YES	
L0007194	0	0.35520E-07	479618.4	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007195	0	0.35520E-07	479622.0	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007196	0	0.35520E-07	479625.7	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007197	0	0.35520E-07	479629.3	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007198	0	0.35520E-07	479633.0	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007199	0	0.35520E-07	479636.7	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007200	0	0.35520E-07	479638.7	3742987.3	441.2	0.00	1.70	6.52	YES	
L0007201	0	0.35520E-07	479638.7	3742991.0	441.2	0.00	1.70	6.52	YES	
L0007202	0	0.35520E-07	479638.7	3742994.7	441.2	0.00	1.70	6.52	YES	
L0007203	0	0.35520E-07	479638.7	3742998.3	441.2	0.00	1.70	6.52	YES	
L0007204	0	0.35520E-07	479638.8	3743002.0	441.2	0.00	1.70	6.52	YES	
L0007205	0	0.35520E-07	479638.8	3743005.6	441.3	0.00	1.70	6.52	YES	
L0007206	0	0.35520E-07	479638.8	3743009.3	441.3	0.00	1.70	6.52	YES	
L0007207	0	0.35520E-07	479638.8	3743012.9	441.3	0.00	1.70	6.52	YES	
L0007208	0	0.35520E-07	479638.8	3743016.6	441.3	0.00	1.70	6.52	YES	
L0007209	0	0.35520E-07	479638.8	3743020.3	441.3	0.00	1.70	6.52	YES	
L0007210	0	0.35520E-07	479638.9	3743023.9	441.3	0.00	1.70	6.52	YES	
L0007211	0	0.35520E-07	479638.9	3743027.6	441.3	0.00	1.70	6.52	YES	
L0007212	0	0.35520E-07	479638.9	3743031.2	441.3	0.00	1.70	6.52	YES	
L0007213	0	0.35520E-07	479638.9	3743034.9	441.3	0.00	1.70	6.52	YES	
L0007214	0	0.35520E-07	479638.9	3743038.5	441.3	0.00	1.70	6.52	YES	
L0007215	0	0.35520E-07	479638.7	3743042.0	441.4	0.00	1.70	6.52	YES	
L0007216	0	0.35520E-07	479635.1	3743042.0	441.4	0.00	1.70	6.52	YES	

L0007217	0	0.35520E-07	479631.4	3743042.1	441.4	0.00	1.70	6.52	YES
L0007218	0	0.35520E-07	479627.8	3743042.1	441.4	0.00	1.70	6.52	YES
L0007219	0	0.35520E-07	479624.1	3743042.1	441.4	0.00	1.70	6.52	YES
L0007220	0	0.35520E-07	479620.5	3743042.1	441.4	0.00	1.70	6.52	YES
L0007221	0	0.35520E-07	479616.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0007222	0	0.35520E-07	479613.1	3743042.2	441.4	0.00	1.70	6.52	YES
L0007223	0	0.35520E-07	479609.5	3743042.2	441.4	0.00	1.70	6.52	YES
L0007224	0	0.35520E-07	479605.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0007225	0	0.35520E-07	479602.2	3743042.3	441.5	0.00	1.70	6.52	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
L0007226	0	0.35520E-07	479598.5	3743042.3	441.5	0.00	1.70	6.52	YES	
L0007227	0	0.35520E-07	479594.9	3743042.3	441.5	0.00	1.70	6.52	YES	
L0007228	0	0.35520E-07	479591.2	3743042.3	441.6	0.00	1.70	6.52	YES	
L0007229	0	0.35520E-07	479587.5	3743042.4	441.6	0.00	1.70	6.52	YES	
L0007230	0	0.35520E-07	479583.9	3743042.4	441.6	0.00	1.70	6.52	YES	
L0007231	0	0.35430E-07	479887.8	3743102.4	441.0	0.00	1.70	6.52	YES	
L0007232	0	0.35430E-07	479884.2	3743102.3	441.0	0.00	1.70	6.52	YES	
L0007233	0	0.35430E-07	479880.5	3743102.3	441.0	0.00	1.70	6.52	YES	
L0007234	0	0.35430E-07	479876.8	3743102.2	441.0	0.00	1.70	6.52	YES	
L0007235	0	0.35430E-07	479873.2	3743102.2	441.0	0.00	1.70	6.52	YES	
L0007236	0	0.35430E-07	479869.5	3743102.1	441.0	0.00	1.70	6.52	YES	
L0007237	0	0.35430E-07	479865.9	3743102.1	441.0	0.00	1.70	6.52	YES	
L0007238	0	0.35430E-07	479862.2	3743102.0	441.0	0.00	1.70	6.52	YES	
L0007239	0	0.35430E-07	479858.6	3743102.0	441.0	0.00	1.70	6.52	YES	
L0007240	0	0.35430E-07	479854.9	3743101.9	441.0	0.00	1.70	6.52	YES	
L0007241	0	0.35430E-07	479851.2	3743101.9	441.0	0.00	1.70	6.52	YES	
L0007242	0	0.35430E-07	479847.6	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007243	0	0.35430E-07	479843.9	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007244	0	0.35430E-07	479840.3	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007245	0	0.35430E-07	479836.6	3743101.7	441.0	0.00	1.70	6.52	YES	
L0007246	0	0.35430E-07	479833.0	3743101.7	441.0	0.00	1.70	6.52	YES	
L0007247	0	0.35430E-07	479829.3	3743101.6	441.0	0.00	1.70	6.52	YES	
L0007248	0	0.35430E-07	479825.6	3743101.6	441.0	0.00	1.70	6.52	YES	
L0007249	0	0.35430E-07	479822.0	3743101.5	441.0	0.00	1.70	6.52	YES	
L0007250	0	0.35430E-07	479818.3	3743101.5	441.0	0.00	1.70	6.52	YES	
L0007251	0	0.35430E-07	479814.7	3743101.1	441.1	0.00	1.70	6.52	YES	
L0007252	0	0.35430E-07	479811.1	3743100.3	441.1	0.00	1.70	6.52	YES	
L0007253	0	0.35430E-07	479807.5	3743099.6	441.1	0.00	1.70	6.52	YES	



L0007254	0	0.35430E-07	479804.0	3743098.9	441.1	0.00	1.70	6.52	YES
L0007255	0	0.35430E-07	479800.4	3743098.1	441.1	0.00	1.70	6.52	YES
L0007256	0	0.35430E-07	479796.8	3743097.4	441.1	0.00	1.70	6.52	YES
L0007257	0	0.35430E-07	479793.2	3743096.7	441.1	0.00	1.70	6.52	YES
L0007258	0	0.35430E-07	479789.6	3743095.9	441.1	0.00	1.70	6.52	YES
L0007259	0	0.35430E-07	479786.0	3743095.2	441.1	0.00	1.70	6.52	YES
L0007260	0	0.35430E-07	479782.5	3743094.5	441.1	0.00	1.70	6.52	YES
L0007261	0	0.35430E-07	479778.9	3743093.7	441.1	0.00	1.70	6.52	YES
L0007262	0	0.35430E-07	479775.2	3743093.8	441.1	0.00	1.70	6.52	YES
L0007263	0	0.35430E-07	479771.6	3743093.9	441.2	0.00	1.70	6.52	YES
L0007264	0	0.35430E-07	479767.9	3743093.9	441.2	0.00	1.70	6.52	YES
L0007265	0	0.35430E-07	479764.2	3743094.0	441.2	0.00	1.70	6.52	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
L0007266	0	0.35430E-07	479760.6	3743094.0	441.2	0.00	1.70	6.52	YES	
L0007267	0	0.35430E-07	479756.9	3743094.1	441.2	0.00	1.70	6.52	YES	
L0007268	0	0.35430E-07	479753.3	3743094.2	441.2	0.00	1.70	6.52	YES	
L0007269	0	0.35430E-07	479749.6	3743094.2	441.2	0.00	1.70	6.52	YES	
L0007270	0	0.35430E-07	479746.0	3743094.3	441.2	0.00	1.70	6.52	YES	
L0007271	0	0.35430E-07	479742.3	3743094.4	441.2	0.00	1.70	6.52	YES	
L0007272	0	0.35430E-07	479738.6	3743094.4	441.2	0.00	1.70	6.52	YES	
L0007273	0	0.35430E-07	479735.0	3743094.5	441.2	0.00	1.70	6.52	YES	
L0007274	0	0.35430E-07	479731.3	3743094.5	441.2	0.00	1.70	6.52	YES	
L0007275	0	0.35430E-07	479727.7	3743094.6	441.2	0.00	1.70	6.52	YES	
L0007276	0	0.35430E-07	479724.0	3743094.7	441.2	0.00	1.70	6.52	YES	
L0007277	0	0.35430E-07	479720.4	3743094.7	441.2	0.00	1.70	6.52	YES	
L0007278	0	0.35430E-07	479716.7	3743094.8	441.2	0.00	1.70	6.52	YES	
L0007279	0	0.35430E-07	479713.0	3743094.9	441.2	0.00	1.70	6.52	YES	
L0007280	0	0.35430E-07	479709.4	3743094.9	441.2	0.00	1.70	6.52	YES	
L0007281	0	0.35430E-07	479705.7	3743095.0	441.2	0.00	1.70	6.52	YES	
L0007282	0	0.35430E-07	479702.1	3743095.1	441.2	0.00	1.70	6.52	YES	
L0007283	0	0.35430E-07	479698.4	3743095.1	441.2	0.00	1.70	6.52	YES	
L0007284	0	0.35430E-07	479694.8	3743095.2	441.2	0.00	1.70	6.52	YES	
L0007285	0	0.35430E-07	479691.1	3743095.2	441.2	0.00	1.70	6.52	YES	
L0007286	0	0.35430E-07	479687.4	3743095.3	441.2	0.00	1.70	6.52	YES	
L0007287	0	0.35430E-07	479683.8	3743095.4	441.2	0.00	1.70	6.52	YES	
L0007288	0	0.35430E-07	479680.1	3743095.4	441.2	0.00	1.70	6.52	YES	
L0007289	0	0.35430E-07	479676.5	3743095.5	441.2	0.00	1.70	6.52	YES	
L0007290	0	0.35430E-07	479672.8	3743095.6	441.2	0.00	1.70	6.52	YES	

L0007291	0	0.35430E-07	479669.2	3743095.6	441.2	0.00	1.70	6.52	YES
L0007292	0	0.35430E-07	479665.5	3743095.7	441.2	0.00	1.70	6.52	YES
L0007293	0	0.35430E-07	479661.8	3743095.7	441.2	0.00	1.70	6.52	YES
L0007294	0	0.35430E-07	479658.2	3743095.8	441.2	0.00	1.70	6.52	YES
L0007295	0	0.35430E-07	479654.5	3743095.9	441.2	0.00	1.70	6.52	YES
L0007296	0	0.35430E-07	479650.9	3743095.9	441.2	0.00	1.70	6.52	YES
L0007297	0	0.35430E-07	479647.2	3743096.0	441.2	0.00	1.70	6.52	YES
L0007298	0	0.35430E-07	479643.6	3743096.1	441.2	0.00	1.70	6.52	YES
L0007299	0	0.35430E-07	479639.9	3743096.1	441.2	0.00	1.70	6.52	YES
L0007300	0	0.35430E-07	479636.2	3743096.2	441.2	0.00	1.70	6.52	YES
L0007301	0	0.35430E-07	479632.6	3743096.3	441.2	0.00	1.70	6.52	YES
L0007302	0	0.35430E-07	479628.9	3743096.3	441.2	0.00	1.70	6.52	YES
L0007303	0	0.35430E-07	479625.3	3743096.4	441.2	0.00	1.70	6.52	YES
L0007304	0	0.35430E-07	479621.6	3743096.4	441.3	0.00	1.70	6.52	YES
L0007305	0	0.35430E-07	479618.0	3743096.5	441.3	0.00	1.70	6.52	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 Y		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0007306	0	0.35430E-07	479614.3	3743096.6	441.3	0.00	1.70	6.52	YES	
L0007307	0	0.35430E-07	479610.6	3743096.6	441.3	0.00	1.70	6.52	YES	
L0007308	0	0.35430E-07	479607.0	3743096.7	441.3	0.00	1.70	6.52	YES	
L0007309	0	0.35430E-07	479603.3	3743096.8	441.3	0.00	1.70	6.52	YES	
L0007310	0	0.35430E-07	479599.7	3743096.8	441.3	0.00	1.70	6.52	YES	
L0007311	0	0.35430E-07	479596.0	3743096.9	441.3	0.00	1.70	6.52	YES	
L0007312	0	0.35430E-07	479592.4	3743096.9	441.4	0.00	1.70	6.52	YES	
L0007313	0	0.35430E-07	479588.7	3743097.0	441.4	0.00	1.70	6.52	YES	
L0007314	0	0.35430E-07	479585.0	3743097.1	441.4	0.00	1.70	6.52	YES	
L0007315	0	0.35430E-07	479581.4	3743097.1	441.4	0.00	1.70	6.52	YES	
L0007316	0	0.35430E-07	479577.7	3743097.2	441.4	0.00	1.70	6.52	YES	
L0007317	0	0.35430E-07	479574.1	3743097.3	441.4	0.00	1.70	6.52	YES	
L0007318	0	0.35430E-07	479570.4	3743097.3	441.4	0.00	1.70	6.52	YES	
L0007319	0	0.35430E-07	479566.8	3743097.4	441.5	0.00	1.70	6.52	YES	
L0007320	0	0.35430E-07	479563.1	3743097.5	441.5	0.00	1.70	6.52	YES	
L0007321	0	0.35430E-07	479559.4	3743097.5	441.5	0.00	1.70	6.52	YES	
L0007322	0	0.35430E-07	479555.8	3743097.6	441.5	0.00	1.70	6.52	YES	
L0007323	0	0.35430E-07	479552.1	3743097.6	441.6	0.00	1.70	6.52	YES	
L0007324	0	0.35430E-07	479548.5	3743097.7	441.6	0.00	1.70	6.52	YES	
L0007511	0	0.20510E-07	479890.4	3742888.1	440.5	0.00	1.70	0.85	YES	
L0007512	0	0.20510E-07	479890.4	3742891.8	440.5	0.00	1.70	0.85	YES	
L0007513	0	0.20510E-07	479890.4	3742895.4	440.5	0.00	1.70	0.85	YES	

L0007514	0	0.20510E-07	479890.4	3742899.1	440.4	0.00	1.70	0.85	YES
L0007515	0	0.20510E-07	479890.4	3742902.7	440.4	0.00	1.70	0.85	YES
L0007516	0	0.20510E-07	479890.4	3742906.4	440.4	0.00	1.70	0.85	YES
L0007517	0	0.20510E-07	479890.4	3742910.0	440.4	0.00	1.70	0.85	YES
L0007518	0	0.20510E-07	479890.4	3742913.7	440.4	0.00	1.70	0.85	YES
L0007519	0	0.20510E-07	479890.4	3742917.4	440.4	0.00	1.70	0.85	YES
L0007520	0	0.20510E-07	479890.4	3742921.0	440.4	0.00	1.70	0.85	YES
L0007521	0	0.20510E-07	479890.4	3742924.7	440.4	0.00	1.70	0.85	YES
L0007522	0	0.20510E-07	479890.4	3742928.3	440.4	0.00	1.70	0.85	YES
L0007523	0	0.20510E-07	479890.4	3742932.0	440.4	0.00	1.70	0.85	YES
L0007524	0	0.20510E-07	479890.4	3742935.6	440.5	0.00	1.70	0.85	YES
L0007525	0	0.20510E-07	479890.4	3742939.3	440.5	0.00	1.70	0.85	YES
L0007526	0	0.20510E-07	479890.4	3742943.0	440.5	0.00	1.70	0.85	YES
L0007527	0	0.20510E-07	479890.4	3742946.6	440.5	0.00	1.70	0.85	YES
L0007528	0	0.20510E-07	479890.4	3742950.3	440.5	0.00	1.70	0.85	YES
L0007529	0	0.20510E-07	479890.5	3742953.9	440.5	0.00	1.70	0.85	YES
L0007530	0	0.20510E-07	479890.5	3742957.6	440.5	0.00	1.70	0.85	YES
L0007531	0	0.20510E-07	479890.5	3742961.2	440.5	0.00	1.70	0.85	YES

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 \*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*      PAGE    9

\*\*\* 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
L0007532	0	0.20510E-07	479890.5	3742964.9	440.5	0.00	1.70	0.85	YES	
L0007533	0	0.20510E-07	479890.5	3742968.6	440.5	0.00	1.70	0.85	YES	
L0007534	0	0.20510E-07	479890.5	3742972.2	440.5	0.00	1.70	0.85	YES	
L0007535	0	0.20510E-07	479890.5	3742975.9	440.5	0.00	1.70	0.85	YES	
L0007536	0	0.20510E-07	479890.5	3742979.5	440.5	0.00	1.70	0.85	YES	
L0007537	0	0.20510E-07	479890.5	3742983.2	440.5	0.00	1.70	0.85	YES	
L0007538	0	0.20510E-07	479890.5	3742986.9	440.5	0.00	1.70	0.85	YES	
L0007539	0	0.20510E-07	479890.5	3742990.5	440.5	0.00	1.70	0.85	YES	
L0007540	0	0.20510E-07	479890.5	3742994.2	440.5	0.00	1.70	0.85	YES	
L0007541	0	0.20510E-07	479890.5	3742997.8	440.6	0.00	1.70	0.85	YES	
L0007542	0	0.20510E-07	479890.5	3743001.5	440.6	0.00	1.70	0.85	YES	
L0007543	0	0.20510E-07	479890.5	3743005.1	440.6	0.00	1.70	0.85	YES	
L0007544	0	0.20510E-07	479890.5	3743008.8	440.6	0.00	1.70	0.85	YES	
L0007545	0	0.20510E-07	479890.5	3743012.5	440.6	0.00	1.70	0.85	YES	
L0007546	0	0.20510E-07	479890.5	3743016.1	440.6	0.00	1.70	0.85	YES	
L0007547	0	0.20510E-07	479890.5	3743019.8	440.6	0.00	1.70	0.85	YES	
L0007548	0	0.20510E-07	479890.5	3743023.4	440.6	0.00	1.70	0.85	YES	
L0007549	0	0.20510E-07	479890.5	3743027.1	440.7	0.00	1.70	0.85	YES	
L0007550	0	0.20510E-07	479890.5	3743030.7	440.7	0.00	1.70	0.85	YES	

L0007551	0	0.20510E-07	479890.5	3743034.4	440.7	0.00	1.70	0.85	YES
L0007552	0	0.20510E-07	479890.5	3743038.1	440.7	0.00	1.70	0.85	YES
L0007553	0	0.20510E-07	479890.5	3743041.7	440.7	0.00	1.70	0.85	YES
L0007554	0	0.20510E-07	479890.5	3743045.4	440.8	0.00	1.70	0.85	YES
L0007555	0	0.20510E-07	479890.5	3743049.0	440.8	0.00	1.70	0.85	YES
L0007556	0	0.20510E-07	479890.5	3743052.7	440.8	0.00	1.70	0.85	YES
L0007557	0	0.20510E-07	479890.6	3743056.3	440.8	0.00	1.70	0.85	YES
L0007558	0	0.20510E-07	479890.6	3743060.0	440.8	0.00	1.70	0.85	YES
L0007559	0	0.20510E-07	479890.6	3743063.7	440.9	0.00	1.70	0.85	YES
L0007560	0	0.20510E-07	479890.6	3743067.3	440.9	0.00	1.70	0.85	YES
L0007561	0	0.20510E-07	479890.6	3743071.0	440.9	0.00	1.70	0.85	YES
L0007562	0	0.20510E-07	479890.6	3743074.6	440.9	0.00	1.70	0.85	YES
L0007563	0	0.20510E-07	479890.6	3743078.3	440.9	0.00	1.70	0.85	YES
L0007564	0	0.20510E-07	479890.6	3743082.0	440.9	0.00	1.70	0.85	YES
L0007565	0	0.20510E-07	479890.6	3743085.6	440.9	0.00	1.70	0.85	YES
L0007566	0	0.20510E-07	479890.6	3743089.3	441.0	0.00	1.70	0.85	YES
L0007567	0	0.20510E-07	479890.6	3743092.9	441.0	0.00	1.70	0.85	YES
L0007568	0	0.20510E-07	479890.6	3743096.6	441.0	0.00	1.70	0.85	YES
L0007569	0	0.20510E-07	479890.6	3743100.2	441.0	0.00	1.70	0.85	YES
L0007570	0	0.40710E-07	479890.2	3743105.4	441.0	0.00	1.70	0.85	YES
L0007571	0	0.40710E-07	479890.3	3743109.1	441.0	0.00	1.70	0.85	YES

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\*\*\* 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
L0007572	0	0.40710E-07	479890.4	3743112.7	441.0	0.00	1.70	0.85	YES	
L0007573	0	0.40710E-07	479890.5	3743116.4	441.0	0.00	1.70	0.85	YES	
L0007574	0	0.40710E-07	479890.6	3743120.0	441.0	0.00	1.70	0.85	YES	
L0007575	0	0.40710E-07	479890.7	3743123.7	441.0	0.00	1.70	0.85	YES	
L0007576	0	0.40710E-07	479890.8	3743127.3	441.0	0.00	1.70	0.85	YES	
L0007577	0	0.40710E-07	479890.9	3743131.0	441.0	0.00	1.70	0.85	YES	
L0007578	0	0.40710E-07	479890.9	3743134.7	441.0	0.00	1.70	0.85	YES	
L0007579	0	0.40710E-07	479891.0	3743138.3	441.0	0.00	1.70	0.85	YES	
L0007580	0	0.40710E-07	479891.1	3743142.0	441.0	0.00	1.70	0.85	YES	
L0007581	0	0.40710E-07	479891.2	3743145.6	440.9	0.00	1.70	0.85	YES	
L0007582	0	0.40710E-07	479891.3	3743149.3	440.9	0.00	1.70	0.85	YES	
L0007583	0	0.40710E-07	479891.4	3743152.9	440.9	0.00	1.70	0.85	YES	
L0007584	0	0.40710E-07	479891.5	3743156.6	440.9	0.00	1.70	0.85	YES	
L0007585	0	0.40710E-07	479891.6	3743160.2	440.9	0.00	1.70	0.85	YES	
L0007586	0	0.40710E-07	479891.7	3743163.9	440.9	0.00	1.70	0.85	YES	
L0007587	0	0.40710E-07	479891.8	3743167.6	440.9	0.00	1.70	0.85	YES	

L0007588	0	0.40710E-07	479891.9	3743171.2	440.9	0.00	1.70	0.85	YES
L0007589	0	0.40710E-07	479892.0	3743174.9	440.9	0.00	1.70	0.85	YES
L0007590	0	0.40710E-07	479892.1	3743178.5	440.9	0.00	1.70	0.85	YES
L0007591	0	0.40710E-07	479892.2	3743182.2	440.9	0.00	1.70	0.85	YES
L0007592	0	0.40710E-07	479892.3	3743185.8	440.9	0.00	1.70	0.85	YES
L0007593	0	0.40710E-07	479892.4	3743189.5	440.8	0.00	1.70	0.85	YES
L0007594	0	0.40710E-07	479892.5	3743193.2	440.8	0.00	1.70	0.85	YES
L0007595	0	0.40710E-07	479892.6	3743196.8	440.8	0.00	1.70	0.85	YES
L0007596	0	0.40710E-07	479892.6	3743200.5	440.8	0.00	1.70	0.85	YES
L0007597	0	0.40710E-07	479892.7	3743204.1	440.8	0.00	1.70	0.85	YES
L0007598	0	0.40710E-07	479892.8	3743207.8	440.8	0.00	1.70	0.85	YES
L0007599	0	0.40710E-07	479892.9	3743211.4	440.8	0.00	1.70	0.85	YES
L0007600	0	0.40710E-07	479893.0	3743215.1	440.8	0.00	1.70	0.85	YES
L0007601	0	0.40710E-07	479893.1	3743218.8	440.8	0.00	1.70	0.85	YES
L0007602	0	0.40710E-07	479893.2	3743222.4	440.8	0.00	1.70	0.85	YES
L0007603	0	0.40710E-07	479893.3	3743226.1	440.8	0.00	1.70	0.85	YES
L0007604	0	0.40710E-07	479893.4	3743229.7	440.8	0.00	1.70	0.85	YES
L0007605	0	0.40710E-07	479893.5	3743233.4	440.8	0.00	1.70	0.85	YES
L0007606	0	0.40710E-07	479893.6	3743237.0	440.8	0.00	1.70	0.85	YES
L0007607	0	0.40710E-07	479893.7	3743240.7	440.8	0.00	1.70	0.85	YES
L0007608	0	0.40710E-07	479893.8	3743244.3	440.7	0.00	1.70	0.85	YES
L0007609	0	0.40710E-07	479893.9	3743248.0	440.7	0.00	1.70	0.85	YES
L0007610	0	0.40710E-07	479894.0	3743251.7	440.7	0.00	1.70	0.85	YES
L0007611	0	0.40710E-07	479894.1	3743255.3	440.7	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
L0007612	0	0.40710E-07	479894.2	3743259.0	440.7	0.00	1.70	0.85	YES	
L0007613	0	0.40710E-07	479894.3	3743262.6	440.7	0.00	1.70	0.85	YES	
L0007614	0	0.40710E-07	479894.3	3743266.3	440.7	0.00	1.70	0.85	YES	
L0007615	0	0.40710E-07	479894.4	3743269.9	440.7	0.00	1.70	0.85	YES	
L0007616	0	0.40710E-07	479894.5	3743273.6	440.7	0.00	1.70	0.85	YES	
L0007617	0	0.40710E-07	479894.6	3743277.3	440.6	0.00	1.70	0.85	YES	
L0007618	0	0.40710E-07	479894.7	3743280.9	440.6	0.00	1.70	0.85	YES	
L0007619	0	0.40710E-07	479894.8	3743284.6	440.6	0.00	1.70	0.85	YES	
L0007620	0	0.40710E-07	479894.9	3743288.2	440.6	0.00	1.70	0.85	YES	
L0007621	0	0.40710E-07	479895.0	3743291.9	440.6	0.00	1.70	0.85	YES	
L0007622	0	0.40710E-07	479895.1	3743295.5	440.6	0.00	1.70	0.85	YES	
L0007623	0	0.40710E-07	479895.2	3743299.2	440.6	0.00	1.70	0.85	YES	
L0007624	0	0.40710E-07	479895.3	3743302.8	440.6	0.00	1.70	0.85	YES	

L0007625	0	0.40710E-07	479895.4	3743306.5	440.6	0.00	1.70	0.85	YES
L0007626	0	0.40710E-07	479895.5	3743310.2	440.5	0.00	1.70	0.85	YES
L0007627	0	0.40710E-07	479895.6	3743313.8	440.5	0.00	1.70	0.85	YES
L0007628	0	0.40710E-07	479895.7	3743317.5	440.5	0.00	1.70	0.85	YES
L0007629	0	0.40710E-07	479895.8	3743321.1	440.5	0.00	1.70	0.85	YES
L0007630	0	0.40710E-07	479895.9	3743324.8	440.5	0.00	1.70	0.85	YES
L0007631	0	0.40710E-07	479896.0	3743328.4	440.5	0.00	1.70	0.85	YES
L0007632	0	0.40710E-07	479896.0	3743332.1	440.4	0.00	1.70	0.85	YES
L0007633	0	0.40710E-07	479896.1	3743335.8	440.4	0.00	1.70	0.85	YES
L0007634	0	0.40710E-07	479897.1	3743339.3	440.4	0.00	1.70	0.85	YES
L0007635	0	0.40710E-07	479898.1	3743342.8	440.4	0.00	1.70	0.85	YES
L0007636	0	0.40710E-07	479899.1	3743346.3	440.4	0.00	1.70	0.85	YES
L0007637	0	0.40710E-07	479900.1	3743349.8	440.4	0.00	1.70	0.85	YES
L0007638	0	0.40710E-07	479901.1	3743353.3	440.3	0.00	1.70	0.85	YES
L0007639	0	0.40710E-07	479902.1	3743356.9	440.3	0.00	1.70	0.85	YES
L0007640	0	0.40710E-07	479903.1	3743360.4	440.3	0.00	1.70	0.85	YES
L0007641	0	0.40710E-07	479904.1	3743363.9	440.2	0.00	1.70	0.85	YES
L0007642	0	0.40710E-07	479904.1	3743367.6	440.2	0.00	1.70	0.85	YES
L0007643	0	0.40710E-07	479904.2	3743371.2	440.2	0.00	1.70	0.85	YES
L0007644	0	0.40710E-07	479904.3	3743374.9	440.2	0.00	1.70	0.85	YES
L0007645	0	0.40710E-07	479904.3	3743378.5	440.1	0.00	1.70	0.85	YES
L0007646	0	0.40710E-07	479904.4	3743382.2	440.1	0.00	1.70	0.85	YES
L0007647	0	0.40710E-07	479904.5	3743385.9	440.1	0.00	1.70	0.85	YES
L0007648	0	0.40710E-07	479904.5	3743389.5	440.0	0.00	1.70	0.85	YES
L0007649	0	0.40710E-07	479904.6	3743393.2	440.0	0.00	1.70	0.85	YES
L0007650	0	0.40710E-07	479904.6	3743396.8	440.0	0.00	1.70	0.85	YES
L0007651	0	0.40710E-07	479904.7	3743400.5	439.9	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X Y		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0007652	0	0.40710E-07	479904.8	3743404.1	439.9	0.00	1.70	0.85	YES	
L0007653	0	0.40710E-07	479904.8	3743407.8	439.9	0.00	1.70	0.85	YES	
L0007654	0	0.40710E-07	479904.9	3743411.5	439.9	0.00	1.70	0.85	YES	
L0007655	0	0.40710E-07	479904.9	3743415.1	439.9	0.00	1.70	0.85	YES	
L0007656	0	0.40710E-07	479905.0	3743418.8	439.9	0.00	1.70	0.85	YES	
L0007657	0	0.40710E-07	479905.1	3743422.4	439.9	0.00	1.70	0.85	YES	
L0007658	0	0.40710E-07	479905.1	3743426.1	439.9	0.00	1.70	0.85	YES	
L0007659	0	0.40710E-07	479905.2	3743429.7	439.8	0.00	1.70	0.85	YES	
L0007660	0	0.40710E-07	479905.2	3743433.4	439.8	0.00	1.70	0.85	YES	
L0007661	0	0.40710E-07	479905.3	3743437.1	439.8	0.00	1.70	0.85	YES	

L0007662	0	0.40710E-07	479905.4	3743440.7	439.9	0.00	1.70	0.85	YES
L0007663	0	0.40710E-07	479905.4	3743444.4	439.9	0.00	1.70	0.85	YES
L0007664	0	0.40710E-07	479905.5	3743448.0	439.9	0.00	1.70	0.85	YES
L0007665	0	0.40710E-07	479905.6	3743451.7	439.9	0.00	1.70	0.85	YES
L0007666	0	0.40710E-07	479905.6	3743455.3	439.9	0.00	1.70	0.85	YES
L0007667	0	0.40710E-07	479905.7	3743459.0	439.9	0.00	1.70	0.85	YES
L0007668	0	0.40710E-07	479905.7	3743462.7	439.9	0.00	1.70	0.85	YES
L0007669	0	0.40710E-07	479905.8	3743466.3	440.0	0.00	1.70	0.85	YES
L0007670	0	0.40710E-07	479905.9	3743470.0	439.9	0.00	1.70	0.85	YES
L0007671	0	0.40710E-07	479905.9	3743473.6	439.9	0.00	1.70	0.85	YES
L0007672	0	0.40710E-07	479906.0	3743477.3	439.9	0.00	1.70	0.85	YES
L0007673	0	0.40710E-07	479906.0	3743480.9	439.9	0.00	1.70	0.85	YES
L0007674	0	0.40710E-07	479906.1	3743484.6	439.9	0.00	1.70	0.85	YES
L0007675	0	0.40710E-07	479906.2	3743488.2	439.9	0.00	1.70	0.85	YES
L0007676	0	0.40710E-07	479906.2	3743491.9	439.9	0.00	1.70	0.85	YES
L0007677	0	0.40710E-07	479906.3	3743495.6	439.9	0.00	1.70	0.85	YES
L0007678	0	0.40710E-07	479906.4	3743499.2	439.9	0.00	1.70	0.85	YES
L0007679	0	0.40710E-07	479906.4	3743502.9	439.8	0.00	1.70	0.85	YES
L0007680	0	0.40710E-07	479906.5	3743506.5	439.8	0.00	1.70	0.85	YES
L0007681	0	0.40710E-07	479906.5	3743510.2	439.8	0.00	1.70	0.85	YES
L0007682	0	0.40710E-07	479906.6	3743513.8	439.8	0.00	1.70	0.85	YES
L0007683	0	0.40710E-07	479906.7	3743517.5	439.8	0.00	1.70	0.85	YES
L0007684	0	0.40710E-07	479906.7	3743521.2	439.8	0.00	1.70	0.85	YES
L0007685	0	0.40710E-07	479906.8	3743524.8	439.8	0.00	1.70	0.85	YES
L0007686	0	0.40710E-07	479906.8	3743528.5	439.8	0.00	1.70	0.85	YES
L0007687	0	0.40710E-07	479906.9	3743532.1	439.8	0.00	1.70	0.85	YES
L0007688	0	0.40710E-07	479907.0	3743535.8	439.8	0.00	1.70	0.85	YES
L0007689	0	0.40710E-07	479907.0	3743539.4	439.8	0.00	1.70	0.85	YES
L0007690	0	0.40710E-07	479907.1	3743543.1	439.8	0.00	1.70	0.85	YES
L0007691	0	0.40710E-07	479907.2	3743546.8	439.8	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
L0007692	0	0.40710E-07	479907.2	3743550.4	439.8	0.00	1.70	0.85	YES		
L0007693	0	0.40710E-07	479907.3	3743554.1	439.7	0.00	1.70	0.85	YES		
L0007694	0	0.40710E-07	479907.3	3743557.7	439.7	0.00	1.70	0.85	YES		
L0007695	0	0.40710E-07	479907.4	3743561.4	439.7	0.00	1.70	0.85	YES		
L0007696	0	0.40710E-07	479907.7	3743565.0	439.7	0.00	1.70	0.85	YES		

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\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs								
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ALL	L0007106	, L0007107	, L0007108	, L0007109	, L0007110	, L0007111	, L0007112	, L0007113	,
	L0007114	, L0007115	, L0007116	, L0007117	, L0007118	, L0007119	, L0007120	, L0007121	,
	L0007122	, L0007123	, L0007124	, L0007125	, L0007126	, L0007127	, L0007128	, L0007129	,
	L0007130	, L0007131	, L0007132	, L0007133	, L0007134	, L0007135	, L0007136	, L0007137	,
	L0007138	, L0007139	, L0007140	, L0007141	, L0007142	, L0007143	, L0007144	, L0007145	,
	L0007146	, L0007147	, L0007148	, L0007149	, L0007150	, L0007151	, L0007152	, L0007153	,
	L0007154	, L0007155	, L0007156	, L0007157	, L0007158	, L0007159	, L0007160	, L0007161	,
	L0007162	, L0007163	, L0007164	, L0007165	, L0007166	, L0007167	, L0007168	, L0007169	,
	L0007170	, L0007171	, L0007172	, L0007173	, L0007174	, L0007175	, L0007176	, L0007177	,
	L0007178	, L0007179	, L0007180	, L0007181	, L0007182	, L0007183	, L0007184	, L0007185	,
	L0007186	, L0007187	, L0007188	, L0007189	, L0007190	, L0007191	, L0007192	, L0007193	,
	L0007194	, L0007195	, L0007196	, L0007197	, L0007198	, L0007199	, L0007200	, L0007201	,
	L0007202	, L0007203	, L0007204	, L0007205	, L0007206	, L0007207	, L0007208	, L0007209	,
	L0007210	, L0007211	, L0007212	, L0007213	, L0007214	, L0007215	, L0007216	, L0007217	,
	L0007218	, L0007219	, L0007220	, L0007221	, L0007222	, L0007223	, L0007224	, L0007225	,
	L0007226	, L0007227	, L0007228	, L0007229	, L0007230	, L0007231	, L0007232	, L0007233	,
	L0007234	, L0007235	, L0007236	, L0007237	, L0007238	, L0007239	, L0007240	, L0007241	,
	L0007242	, L0007243	, L0007244	, L0007245	, L0007246	, L0007247	, L0007248	, L0007249	,
	L0007250	, L0007251	, L0007252	, L0007253	, L0007254	, L0007255	, L0007256	, L0007257	,
	L0007258	, L0007259	, L0007260	, L0007261	, L0007262	, L0007263	, L0007264	, L0007265	,



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\*\*\* MODELOPTs:    RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs														
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L0007266	,	L0007267	,	L0007268	,	L0007269	,	L0007270	,	L0007271	,	L0007272	,	L0007273	,
L0007274	,	L0007275	,	L0007276	,	L0007277	,	L0007278	,	L0007279	,	L0007280	,	L0007281	,
L0007282	,	L0007283	,	L0007284	,	L0007285	,	L0007286	,	L0007287	,	L0007288	,	L0007289	,
L0007290	,	L0007291	,	L0007292	,	L0007293	,	L0007294	,	L0007295	,	L0007296	,	L0007297	,
L0007298	,	L0007299	,	L0007300	,	L0007301	,	L0007302	,	L0007303	,	L0007304	,	L0007305	,
L0007306	,	L0007307	,	L0007308	,	L0007309	,	L0007310	,	L0007311	,	L0007312	,	L0007313	,
L0007314	,	L0007315	,	L0007316	,	L0007317	,	L0007318	,	L0007319	,	L0007320	,	L0007321	,
L0007322	,	L0007323	,	L0007324	,	L0007511	,	L0007512	,	L0007513	,	L0007514	,	L0007515	,
L0007516	,	L0007517	,	L0007518	,	L0007519	,	L0007520	,	L0007521	,	L0007522	,	L0007523	,
L0007524	,	L0007525	,	L0007526	,	L0007527	,	L0007528	,	L0007529	,	L0007530	,	L0007531	,
L0007532	,	L0007533	,	L0007534	,	L0007535	,	L0007536	,	L0007537	,	L0007538	,	L0007539	,
L0007540	,	L0007541	,	L0007542	,	L0007543	,	L0007544	,	L0007545	,	L0007546	,	L0007547	,
L0007548	,	L0007549	,	L0007550	,	L0007551	,	L0007552	,	L0007553	,	L0007554	,	L0007555	,
L0007556	,	L0007557	,	L0007558	,	L0007559	,	L0007560	,	L0007561	,	L0007562	,	L0007563	,
L0007564	,	L0007565	,	L0007566	,	L0007567	,	L0007568	,	L0007569	,	L0007570	,	L0007571	,
L0007572	,	L0007573	,	L0007574	,	L0007575	,	L0007576	,	L0007577	,	L0007578	,	L0007579	,
L0007580	,	L0007581	,	L0007582	,	L0007583	,	L0007584	,	L0007585	,	L0007586	,	L0007587	,
L0007588	,	L0007589	,	L0007590	,	L0007591	,	L0007592	,	L0007593	,	L0007594	,	L0007595	,
L0007596	,	L0007597	,	L0007598	,	L0007599	,	L0007600	,	L0007601	,	L0007602	,	L0007603	,
L0007604	,	L0007605	,	L0007606	,	L0007607	,	L0007608	,	L0007609	,	L0007610	,	L0007611	,

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs														
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L0007612	,	L0007613	,	L0007614	,	L0007615	,	L0007616	,	L0007617	,	L0007618	,	L0007619	,
L0007620	,	L0007621	,	L0007622	,	L0007623	,	L0007624	,	L0007625	,	L0007626	,	L0007627	,
L0007628	,	L0007629	,	L0007630	,	L0007631	,	L0007632	,	L0007633	,	L0007634	,	L0007635	,
L0007636	,	L0007637	,	L0007638	,	L0007639	,	L0007640	,	L0007641	,	L0007642	,	L0007643	,
L0007644	,	L0007645	,	L0007646	,	L0007647	,	L0007648	,	L0007649	,	L0007650	,	L0007651	,
L0007652	,	L0007653	,	L0007654	,	L0007655	,	L0007656	,	L0007657	,	L0007658	,	L0007659	,
L0007660	,	L0007661	,	L0007662	,	L0007663	,	L0007664	,	L0007665	,	L0007666	,	L0007667	,
L0007668	,	L0007669	,	L0007670	,	L0007671	,	L0007672	,	L0007673	,	L0007674	,	L0007675	,
L0007676	,	L0007677	,	L0007678	,	L0007679	,	L0007680	,	L0007681	,	L0007682	,	L0007683	,
L0007684	,	L0007685	,	L0007686	,	L0007687	,	L0007688	,	L0007689	,	L0007690	,	L0007691	,
L0007692	,	L0007693	,	L0007694	,	L0007695	,	L0007696	,	STCK1	,	STCK2	,	STCK3	,
STCK4	,	STCK5	,	STCK6	,										

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs													
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L0007113	2189641.	L0007106	,	L0007107	,	L0007108	,	L0007109	,	L0007110	,	L0007111	,	L0007112	,

L0007114 , L0007115 , L0007116 , L0007117 , L0007118 , L0007119 , L0007120 , L0007121 ,  
 L0007122 , L0007123 , L0007124 , L0007125 , L0007126 , L0007127 , L0007128 , L0007129 ,  
 L0007130 , L0007131 , L0007132 , L0007133 , L0007134 , L0007135 , L0007136 , L0007137 ,  
 L0007138 , L0007139 , L0007140 , L0007141 , L0007142 , L0007143 , L0007144 , L0007145 ,  
 L0007146 , L0007147 , L0007148 , L0007149 , L0007150 , L0007151 , L0007152 , L0007153 ,  
 L0007154 , L0007155 , L0007156 , L0007157 , L0007158 , L0007159 , L0007160 , L0007161 ,  
 L0007162 , L0007163 , L0007164 , L0007165 , L0007166 , L0007167 , L0007168 , L0007169 ,  
 L0007170 , L0007171 , L0007172 , L0007173 , L0007174 , L0007175 , L0007176 , L0007177 ,  
 L0007178 , L0007179 , L0007180 , L0007181 , L0007182 , L0007183 , L0007184 , L0007185 ,  
 L0007186 , L0007187 , L0007188 , L0007189 , L0007190 , L0007191 , L0007192 , L0007193 ,  
 L0007194 , L0007195 , L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 ,  
 L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 ,  
 L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 ,  
 L0007218 , L0007219 , L0007220 , L0007221 , L0007222 , L0007223 , L0007224 , L0007225 ,  
 L0007226 , L0007227 , L0007228 , L0007229 , L0007230 , L0007231 , L0007232 , L0007233 ,  
 L0007234 , L0007235 , L0007236 , L0007237 , L0007238 , L0007239 , L0007240 , L0007241 ,  
 L0007242 , L0007243 , L0007244 , L0007245 , L0007246 , L0007247 , L0007248 , L0007249 ,  
 L0007250 , L0007251 , L0007252 , L0007253 , L0007254 , L0007255 , L0007256 , L0007257 ,  
 L0007258 , L0007259 , L0007260 , L0007261 , L0007262 , L0007263 , L0007264 , L0007265 ,

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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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L0007266 , L0007267 , L0007268 , L0007269 , L0007270 , L0007271 , L0007272 , L0007273 ,  
L0007274 , L0007275 , L0007276 , L0007277 , L0007278 , L0007279 , L0007280 , L0007281 ,  
L0007282 , L0007283 , L0007284 , L0007285 , L0007286 , L0007287 , L0007288 , L0007289 ,  
L0007290 , L0007291 , L0007292 , L0007293 , L0007294 , L0007295 , L0007296 , L0007297 ,  
L0007298 , L0007299 , L0007300 , L0007301 , L0007302 , L0007303 , L0007304 , L0007305 ,  
L0007306 , L0007307 , L0007308 , L0007309 , L0007310 , L0007311 , L0007312 , L0007313 ,  
L0007314 , L0007315 , L0007316 , L0007317 , L0007318 , L0007319 , L0007320 , L0007321 ,  
L0007322 , L0007323 , L0007324 , L0007511 , L0007512 , L0007513 , L0007514 , L0007515 ,  
L0007516 , L0007517 , L0007518 , L0007519 , L0007520 , L0007521 , L0007522 , L0007523 ,  
L0007524 , L0007525 , L0007526 , L0007527 , L0007528 , L0007529 , L0007530 , L0007531 ,  
L0007532 , L0007533 , L0007534 , L0007535 , L0007536 , L0007537 , L0007538 , L0007539 ,  
L0007540 , L0007541 , L0007542 , L0007543 , L0007544 , L0007545 , L0007546 , L0007547 ,  
L0007548 , L0007549 , L0007550 , L0007551 , L0007552 , L0007553 , L0007554 , L0007555 ,  
L0007556 , L0007557 , L0007558 , L0007559 , L0007560 , L0007561 , L0007562 , L0007563 ,  
L0007564 , L0007565 , L0007566 , L0007567 , L0007568 , L0007569 , L0007570 , L0007571 ,  
L0007572 , L0007573 , L0007574 , L0007575 , L0007576 , L0007577 , L0007578 , L0007579 ,  
L0007580 , L0007581 , L0007582 , L0007583 , L0007584 , L0007585 , L0007586 , L0007587 ,  
L0007588 , L0007589 , L0007590 , L0007591 , L0007592 , L0007593 , L0007594 , L0007595 ,  
L0007596 , L0007597 , L0007598 , L0007599 , L0007600 , L0007601 , L0007602 , L0007603 ,  
L0007604 , L0007605 , L0007606 , L0007607 , L0007608 , L0007609 , L0007610 , L0007611 ,

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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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L0007612 , L0007613 , L0007614 , L0007615 , L0007616 , L0007617 , L0007618 , L0007619 ,  
 L0007620 , L0007621 , L0007622 , L0007623 , L0007624 , L0007625 , L0007626 , L0007627 ,  
 L0007628 , L0007629 , L0007630 , L0007631 , L0007632 , L0007633 , L0007634 , L0007635 ,  
 L0007636 , L0007637 , L0007638 , L0007639 , L0007640 , L0007641 , L0007642 , L0007643 ,  
 L0007644 , L0007645 , L0007646 , L0007647 , L0007648 , L0007649 , L0007650 , L0007651 ,  
 L0007652 , L0007653 , L0007654 , L0007655 , L0007656 , L0007657 , L0007658 , L0007659 ,  
 L0007660 , L0007661 , L0007662 , L0007663 , L0007664 , L0007665 , L0007666 , L0007667 ,  
 L0007668 , L0007669 , L0007670 , L0007671 , L0007672 , L0007673 , L0007674 , L0007675 ,  
 L0007676 , L0007677 , L0007678 , L0007679 , L0007680 , L0007681 , L0007682 , L0007683 ,  
 L0007684 , L0007685 , L0007686 , L0007687 , L0007688 , L0007689 , L0007690 , L0007691 ,  
 L0007692 , L0007693 , L0007694 , L0007695 , L0007696 , STCK1 , STCK2 , STCK3 ,  
 STCK4 , STCK5 , STCK6 ,

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\*\*\* MODELOPTs:    RegDEFAULT    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,	228.2,	195.0,	-14.3,	47.4,	2	14.0,	247.0,	219.2,	-35.2,	58.2,
3	14.0,	258.3,	236.8,	-55.0,	67.2,	4	14.0,	261.7,	247.2,	-73.2,	74.2,
5	14.0,	257.2,	250.1,	-89.1,	78.9,	6	14.0,	244.9,	246.2,	-103.1,	81.2,
7	14.0,	225.2,	238.8,	-117.9,	81.1,	8	14.0,	198.6,	224.0,	-129.1,	78.5,
9	14.0,	186.4,	205.0,	-136.4,	81.2,	10	14.0,	195.0,	228.2,	-161.5,	83.2,
11	14.0,	219.2,	247.0,	-181.7,	74.4,	12	14.0,	236.8,	258.3,	-196.3,	63.4,
13	14.0,	247.2,	261.7,	-205.0,	50.5,	14	14.0,	250.1,	257.2,	-207.5,	36.0,
15	14.0,	246.2,	244.9,	-203.7,	20.0,	16	14.0,	238.8,	225.2,	-193.7,	1.5,
17	14.0,	224.0,	198.6,	-177.8,	-17.1,	18	14.0,	205.0,	186.4,	-174.4,	-33.9,
19	14.0,	228.2,	195.0,	-180.7,	-47.4,	20	14.0,	247.0,	219.2,	-184.0,	-58.2,
21	14.0,	258.3,	236.8,	-181.8,	-67.2,	22	14.0,	261.7,	247.2,	-174.1,	-74.2,
23	14.0,	257.2,	250.1,	-161.0,	-78.9,	24	14.0,	244.9,	246.2,	-143.1,	-81.2,
25	14.0,	225.2,	238.8,	-120.8,	-81.1,	26	14.0,	198.6,	224.0,	-94.9,	-78.5,
27	14.0,	186.4,	205.0,	-68.6,	-81.2,	28	14.0,	195.0,	228.2,	-66.7,	-83.2,
29	14.0,	219.2,	247.0,	-65.3,	-74.4,	30	14.0,	236.8,	258.3,	-61.9,	-63.4,
31	14.0,	247.2,	261.7,	-56.7,	-50.5,	32	14.0,	250.1,	257.2,	-49.7,	-36.0,

33	14.0,	246.2,	244.9,	-41.2,	-20.0,	34	14.0,	238.8,	225.2,	-31.5,	-1.5,
35	14.0,	224.0,	198.6,	-20.8,	17.1,	36	14.0,	205.0,	186.4,	-12.0,	33.9,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-3.1,	-18.5,	2	14.0,	247.0,	219.2,	-12.8,	-4.8,
3	14.0,	258.3,	236.8,	-22.0,	9.1,	4	14.0,	261.7,	247.2,	-30.5,	22.7,
5	14.0,	257.2,	250.1,	-38.1,	35.6,	6	14.0,	244.9,	246.2,	-45.4,	47.4,
7	14.0,	225.2,	238.8,	-55.2,	57.8,	8	14.0,	198.6,	224.0,	-63.3,	66.5,
9	14.0,	186.4,	205.0,	-69.5,	80.7,	10	14.0,	195.0,	228.2,	-95.6,	94.3,
11	14.0,	219.2,	247.0,	-118.7,	96.9,	12	14.0,	236.8,	258.3,	-138.2,	96.5,
13	14.0,	247.2,	261.7,	-153.5,	93.1,	14	14.0,	250.1,	257.2,	-164.2,	86.9,
15	14.0,	246.2,	244.9,	-169.9,	77.7,	16	14.0,	238.8,	225.2,	-170.4,	64.2,
17	14.0,	224.0,	198.6,	-165.7,	48.7,	18	14.0,	205.0,	186.4,	-173.9,	33.0,
19	14.0,	228.2,	195.0,	-191.8,	18.5,	20	14.0,	247.0,	219.2,	-206.5,	4.8,
21	14.0,	258.3,	236.8,	-214.9,	-9.1,	22	14.0,	261.7,	247.2,	-216.7,	-22.7,
23	14.0,	257.2,	250.1,	-212.0,	-35.6,	24	14.0,	244.9,	246.2,	-200.8,	-47.4,
25	14.0,	225.2,	238.8,	-183.5,	-57.8,	26	14.0,	198.6,	224.0,	-160.7,	-66.5,
27	14.0,	186.4,	205.0,	-135.5,	-80.7,	28	14.0,	195.0,	228.2,	-132.6,	-94.3,
29	14.0,	219.2,	247.0,	-128.3,	-96.9,	30	14.0,	236.8,	258.3,	-120.1,	-96.5,
31	14.0,	247.2,	261.7,	-108.2,	-93.1,	32	14.0,	250.1,	257.2,	-93.0,	-86.9,
33	14.0,	246.2,	244.9,	-75.0,	-77.7,	34	14.0,	238.8,	225.2,	-54.8,	-64.2,
35	14.0,	224.0,	198.6,	-32.8,	-48.7,	36	14.0,	205.0,	186.4,	-12.5,	-33.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	22.6,	18.9,	2	14.0,	247.0,	219.2,	6.1,	36.5,
3	14.0,	258.3,	236.8,	-10.6,	53.0,	4	14.0,	261.7,	247.2,	-27.0,	67.9,
5	14.0,	257.2,	250.1,	-42.5,	80.8,	6	14.0,	244.9,	246.2,	-57.6,	91.2,
7	14.0,	225.2,	238.8,	-74.8,	98.8,	8	14.0,	198.6,	224.0,	-89.7,	103.4,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	14.0,	219.2,	247.0,	-160.0,	115.7,	12	14.0,	236.8,	258.3,	-182.2,	107.8,
13	14.0,	247.2,	261.7,	-198.8,	96.6,	14	14.0,	250.1,	257.2,	-209.4,	82.6,
15	14.0,	246.2,	244.9,	-213.6,	65.5,	16	14.0,	238.8,	225.2,	-211.4,	44.6,
17	14.0,	224.0,	198.6,	-202.7,	22.3,	18	14.0,	205.0,	186.4,	-205.7,	0.6,
19	14.0,	228.2,	195.0,	-217.5,	-18.9,	20	14.0,	247.0,	219.2,	-225.3,	-36.5,
21	14.0,	258.3,	236.8,	-226.2,	-53.0,	22	14.0,	261.7,	247.2,	-220.3,	-67.9,
23	14.0,	257.2,	250.1,	-207.6,	-80.8,	24	14.0,	244.9,	246.2,	-188.7,	-91.2,
25	14.0,	225.2,	238.8,	-164.0,	-98.8,	26	14.0,	198.6,	224.0,	-134.3,	-103.4,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	14.0,	219.2,	247.0,	-87.0,	-115.7,	30	14.0,	236.8,	258.3,	-76.1,	-107.8,
31	14.0,	247.2,	261.7,	-62.9,	-96.6,	32	14.0,	250.1,	257.2,	-47.8,	-82.6,
33	14.0,	246.2,	244.9,	-31.3,	-65.5,	34	14.0,	238.8,	225.2,	-13.8,	-44.6,
35	14.0,	224.0,	198.6,	4.1,	-22.3,	36	14.0,	205.0,	186.4,	19.4,	-0.6,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-174.0,	17.4,	2	14.0,	247.0,	219.2,	-187.2,	1.0,

3	14.0,	258.3,	236.8,	-194.8,	-15.5,	4	14.0,	261.7,	247.2,	-196.4,	-31.6,
5	14.0,	257.2,	250.1,	-192.1,	-46.6,	6	14.0,	244.9,	246.2,	-182.8,	-60.3,
7	14.0,	225.2,	238.8,	-171.8,	-72.1,	8	14.0,	198.6,	224.0,	-155.6,	-81.8,
9	14.0,	186.4,	205.0,	-134.6,	-81.2,	10	14.0,	195.0,	228.2,	-131.6,	-76.5,
11	14.0,	219.2,	247.0,	-124.5,	-77.6,	12	14.0,	236.8,	258.3,	-113.6,	-76.4,
13	14.0,	247.2,	261.7,	-99.3,	-72.8,	14	14.0,	250.1,	257.2,	-82.0,	-67.1,
15	14.0,	246.2,	244.9,	-62.1,	-59.7,	16	14.0,	238.8,	225.2,	-40.4,	-52.4,
17	14.0,	224.0,	198.6,	-17.5,	-43.6,	18	14.0,	205.0,	186.4,	-11.9,	-32.1,
19	14.0,	228.2,	195.0,	-21.0,	-17.4,	20	14.0,	247.0,	219.2,	-32.0,	-1.0,
21	14.0,	258.3,	236.8,	-42.0,	15.5,	22	14.0,	261.7,	247.2,	-50.8,	31.6,
23	14.0,	257.2,	250.1,	-58.0,	46.6,	24	14.0,	244.9,	246.2,	-63.4,	60.3,
25	14.0,	225.2,	238.8,	-67.0,	72.1,	26	14.0,	198.6,	224.0,	-68.4,	81.8,
27	14.0,	186.4,	205.0,	-70.4,	81.2,	28	14.0,	195.0,	228.2,	-96.6,	76.5,
29	14.0,	219.2,	247.0,	-122.5,	77.6,	30	14.0,	236.8,	258.3,	-144.7,	76.4,
31	14.0,	247.2,	261.7,	-162.4,	72.8,	32	14.0,	250.1,	257.2,	-175.3,	67.1,
33	14.0,	246.2,	244.9,	-182.8,	59.7,	34	14.0,	238.8,	225.2,	-184.7,	52.4,
35	14.0,	224.0,	198.6,	-181.0,	43.6,	36	14.0,	205.0,	186.4,	-174.4,	32.1,

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\*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - OY 2023 \*\*\*

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-160.9,	-75.1,	2	14.0,	247.0,	219.2,	-158.2,	-87.9,
3	14.0,	258.3,	236.8,	-150.8,	-98.0,	4	14.0,	261.7,	247.2,	-138.8,	-105.2,
5	14.0,	257.2,	250.1,	-122.6,	-109.1,	6	14.0,	244.9,	246.2,	-103.5,	-109.8,
7	14.0,	225.2,	238.8,	-85.1,	-107.1,	8	14.0,	198.6,	224.0,	-64.1,	-101.1,
9	14.0,	186.4,	205.0,	-41.2,	-84.4,	10	14.0,	195.0,	228.2,	-39.0,	-63.4,
11	14.0,	219.2,	247.0,	-35.6,	-48.6,	12	14.0,	236.8,	258.3,	-31.1,	-32.4,
13	14.0,	247.2,	261.7,	-25.7,	-15.2,	14	14.0,	250.1,	257.2,	-19.5,	2.5,
15	14.0,	246.2,	244.9,	-12.7,	19.7,	16	14.0,	238.8,	225.2,	-5.5,	34.3,
17	14.0,	224.0,	198.6,	1.8,	47.9,	18	14.0,	205.0,	186.4,	-8.8,	61.3,
19	14.0,	228.2,	195.0,	-34.1,	75.1,	20	14.0,	247.0,	219.2,	-61.0,	87.9,
21	14.0,	258.3,	236.8,	-86.0,	98.0,	22	14.0,	261.7,	247.2,	-108.4,	105.2,
23	14.0,	257.2,	250.1,	-127.5,	109.1,	24	14.0,	244.9,	246.2,	-142.8,	109.8,
25	14.0,	225.2,	238.8,	-153.7,	107.1,	26	14.0,	198.6,	224.0,	-159.9,	101.1,
27	14.0,	186.4,	205.0,	-163.8,	84.4,	28	14.0,	195.0,	228.2,	-189.2,	63.4,
29	14.0,	219.2,	247.0,	-211.4,	48.6,	30	14.0,	236.8,	258.3,	-227.2,	32.4,
31	14.0,	247.2,	261.7,	-236.1,	15.2,	32	14.0,	250.1,	257.2,	-237.7,	-2.5,
33	14.0,	246.2,	244.9,	-232.2,	-19.7,	34	14.0,	238.8,	225.2,	-219.6,	-34.3,
35	14.0,	224.0,	198.6,	-200.4,	-47.9,	36	14.0,	205.0,	186.4,	-177.6,	-61.3,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
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1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	0.0,	0.0,	0.0,	0.0,	0.0,	12	0.0,	0.0,	0.0,	0.0,	0.0,
13	0.0,	0.0,	0.0,	0.0,	0.0,	14	0.0,	0.0,	0.0,	0.0,	0.0,
15	0.0,	0.0,	0.0,	0.0,	0.0,	16	0.0,	0.0,	0.0,	0.0,	0.0,
17	0.0,	0.0,	0.0,	0.0,	0.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	14.0,	186.4,	205.0,	-256.0,	96.5,	28	14.0,	195.0,	228.2,	-282.1,	59.2,
29	14.0,	219.2,	247.0,	-302.2,	28.4,	30	14.0,	236.8,	258.3,	-313.1,	-3.2,
31	14.0,	247.2,	261.7,	-314.4,	-34.8,	32	14.0,	250.1,	257.2,	-306.2,	-65.3,
33	14.0,	246.2,	244.9,	-288.8,	-93.5,	34	14.0,	238.8,	225.2,	-262.5,	-116.8,
35	0.0,	0.0,	0.0,	0.0,	0.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - OY 2023 ***      07:29:29
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*** MODELOPTs:   RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

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*** X-COORDINATES OF GRID ***
(METERS)

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479016.1, 479088.4, 479160.7, 479233.0, 479305.3, 479377.6, 479449.9, 479522.2, 479594.5, 479666.8,
479739.1, 479811.4, 479883.7, 479956.0, 480028.3, 480100.6, 480172.9, 480245.2, 480317.5, 480389.8,
480462.1,

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*** Y-COORDINATES OF GRID ***
(METERS)

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3742296.2, 3742363.9, 3742431.5, 3742499.2, 3742566.8, 3742634.5, 3742702.1, 3742769.8, 3742837.5, 3742905.1,
3742972.8, 3743040.4, 3743108.1, 3743175.8, 3743243.4, 3743311.1, 3743378.8, 3743446.4, 3743514.1, 3743581.7,
3743649.4,

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - OY 2023 ***      07:29:29
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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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* ELEVATION HEIGHTS IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)								
	479016.09	479088.39	479160.69	479232.99	479305.29	479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	440.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* NETWORK ID: UCART1    ;    NETWORK TYPE: GRIDCART \*\*\*

\* ELEVATION HEIGHTS IN METERS \*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40
3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30

3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - OY 2023      \*\*\*      07:29:29  
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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)		
	480317.49	480389.79	480462.09
3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - OY 2023      \*\*\*      07:29:29  
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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)	479016.09	479088.39	479160.69	X-COORD (METERS)		479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	441.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
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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)	479666.79	479739.09	479811.39	X-COORD (METERS)		480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40

3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30
3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

\*\*\* AERMOT - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - OY 2023 \*\*\*      07:29:29

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\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* NETWORK ID: UCART1    ;    NETWORK TYPE: GRIDCART \*\*\*

\* HILL HEIGHT SCALES IN METERS \*

Y-COORD (METERS)	X-COORD (METERS)		
	480317.49	480389.79	480462.09
3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

\*\*\* AERMOT - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
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(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.SFC Met Version: 16216  
Profile file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.PFL  
Surface format: FREE  
Profile format: FREE  
Surface station no.: 3171 Upper air station no.: 3190  
Name: UNKNOWN Name: UNKNOWN  
Year: 2010 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 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 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): L0007106 , L0007107 , L0007108 , L0007109 , L0007110 ,
L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 ,
L0007119 , L0007120 , L0007121 , L0007122 , L0007123 , L0007124 , L0007125 , L0007126 ,
L0007127 , L0007128 , L0007129 , L0007130 , L0007131 , L0007132 , L0007133 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Table with 10 columns: Y-COORD (METERS), X-COORD (METERS), and 8 columns of concentration values. The table lists data for various Y and X coordinates, with concentration values ranging from 0.00013 to 0.00055.

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21
\*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - OY 2023 \*\*\* 07:29:29
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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): L0007106 , L0007107 , L0007108 , L0007109 , L0007110 ,  
 L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 ,  
 L0007119 , L0007120 , L0007121 , L0007122 , L0007123 , L0007124 , L0007125 , L0007126 ,  
 L0007127 , L0007128 , L0007129 , L0007130 , L0007131 , L0007132 , L0007133 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	0.00056	0.00055	0.00055	0.00054	0.00050	0.00042	0.00036	0.00030	0.00025
3743581.73	0.00068	0.00068	0.00069	0.00088	0.00069	0.00051	0.00041	0.00034	0.00028
3743514.07	0.00083	0.00083	0.00087	0.00156	0.00096	0.00061	0.00047	0.00038	0.00031
3743446.41	0.00101	0.00101	0.00104	0.00181	0.00112	0.00070	0.00052	0.00041	0.00033
3743378.75	0.00125	0.00124	0.00124	0.00206	0.00122	0.00077	0.00057	0.00044	0.00035
3743311.09	0.00156	0.00156	0.00149	0.00298	0.00127	0.00082	0.00061	0.00047	0.00037
3743243.43	0.00200	0.00206	0.00182	0.00347	0.00133	0.00086	0.00063	0.00048	0.00038
3743175.77	0.00275	0.00323	0.00253	0.00411	0.00137	0.00088	0.00064	0.00050	0.00039
3743108.11	0.00404	0.00392	0.00385	0.00538	0.00137	0.00087	0.00065	0.00050	0.00040
3743040.45	0.00328	0.00332	0.00267	0.00323	0.00140	0.00087	0.00065	0.00051	0.00040
3742972.79	0.00295	0.00332	0.00252	0.00310	0.00141	0.00086	0.00064	0.00050	0.00040
3742905.13	0.00401	0.00381	0.00306	0.00371	0.00136	0.00087	0.00064	0.00050	0.00040
3742837.47	0.00222	0.00334	0.00339	0.00215	0.00129	0.00088	0.00064	0.00049	0.00039
3742769.81	0.00134	0.00189	0.00226	0.00183	0.00127	0.00090	0.00066	0.00050	0.00040
3742702.15	0.00097	0.00126	0.00157	0.00154	0.00121	0.00090	0.00067	0.00051	0.00040
3742634.49	0.00076	0.00093	0.00115	0.00124	0.00108	0.00086	0.00066	0.00051	0.00040
3742566.83	0.00061	0.00073	0.00086	0.00097	0.00093	0.00079	0.00063	0.00049	0.00039
3742499.17	0.00051	0.00059	0.00069	0.00077	0.00078	0.00070	0.00058	0.00047	0.00038
3742431.51	0.00042	0.00049	0.00056	0.00062	0.00064	0.00060	0.00052	0.00044	0.00036
3742363.85	0.00036	0.00040	0.00045	0.00050	0.00053	0.00051	0.00046	0.00039	0.00033
3742296.19	0.00031	0.00034	0.00038	0.00041	0.00043	0.00043	0.00040	0.00035	0.00030

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - OY 2023 \*\*\*      07:29:29  
 \*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*      PAGE 35

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0007106 , L0007107 , L0007108 , L0007109 , L0007110 ,  
 L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 ,  
 L0007119 , L0007120 , L0007121 , L0007122 , L0007123 , L0007124 , L0007125 , L0007126 ,  
 L0007127 , L0007128 , L0007129 , L0007130 , L0007131 , L0007132 , L0007133 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD | X-COORD (METERS)



(METERS) | 480317.49 480389.79 480462.09

3743649.39	0.00021	0.00018	0.00015
3743581.73	0.00023	0.00019	0.00016
3743514.07	0.00025	0.00021	0.00018
3743446.41	0.00027	0.00022	0.00019
3743378.75	0.00029	0.00024	0.00020
3743311.09	0.00030	0.00025	0.00021
3743243.43	0.00031	0.00026	0.00021
3743175.77	0.00032	0.00026	0.00022
3743108.11	0.00033	0.00027	0.00022
3743040.45	0.00033	0.00027	0.00022
3742972.79	0.00033	0.00027	0.00022
3742905.13	0.00032	0.00027	0.00022
3742837.47	0.00032	0.00026	0.00022
3742769.81	0.00032	0.00026	0.00022
3742702.15	0.00032	0.00026	0.00021
3742634.49	0.00032	0.00026	0.00021
3742566.83	0.00031	0.00025	0.00021
3742499.17	0.00030	0.00025	0.00020
3742431.51	0.00029	0.00024	0.00020
3742363.85	0.00027	0.00023	0.00019
3742296.19	0.00025	0.00021	0.00018

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - OY 2023 \*\*\*      07:29:29  
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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):    L0007106    ,    L0007107    ,    L0007108    ,    L0007109    ,    L0007110    ,  
 L0007111    ,    L0007112    ,    L0007113    ,    L0007114    ,    L0007115    ,    L0007116    ,    L0007117    ,    L0007118    ,  
 L0007119    ,    L0007120    ,    L0007121    ,    L0007122    ,    L0007123    ,    L0007124    ,    L0007125    ,    L0007126    ,  
 L0007127    ,    L0007128    ,    L0007129    ,    L0007130    ,    L0007131    ,    L0007132    ,    L0007133    ,    . . .    ,

\*\*\* 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	
479517.63	3743087.52	0.00165	479625.84	3742903.49	0.00254	
479747.94	3742702.04	0.00130	479941.63	3742746.07	0.00135	
480129.11	3743129.41	0.00058	480038.90	3743313.86	0.00078	
479770.81	3743365.76	0.00128				

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - OY 2023 \*\*\*      07:29:29  
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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	0.00538 AT ( 479883.69, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00411 AT ( 479883.69, 3743175.77, 440.90, 440.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00404 AT ( 479666.79, 3743108.11, 440.90, 440.90, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00401 AT ( 479666.79, 3742905.13, 441.10, 441.10, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00392 AT ( 479739.09, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00385 AT ( 479811.39, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00381 AT ( 479739.09, 3742905.13, 440.90, 440.90, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00371 AT ( 479883.69, 3742905.13, 440.50, 440.50, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00369 AT ( 479594.49, 3743040.45, 441.50, 441.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00347 AT ( 479883.69, 3743243.43, 440.80, 440.80, 0.00)	GC	UCART1

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\* 19370 DPM Concentrations - OY 2023 \*\*\*

08/17/21  
 07:29:29  
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\*\*\* MODELOPTs: RegDEFAULT 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 10 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 946 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 947 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 948 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 949 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 950 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 951 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 1189 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 1189 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

```

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*****
*** AERMOD Finishes Successfully ***
*****

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```

** 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\19370 Redlands Avenue West 2024-25\19370 Redlands Avenue West 2024-25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria
TITLETWO 19370 DPM Concentrations - 2024-2025
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19370 Redlands Avenue West 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 Onsite from southern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 4.29E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 11
** 479886.890, 3742886.073, 440.50, 0.00, 1.70
** 479818.066, 3742886.064, 440.61, 0.00, 1.70

```

\*\* 479767.787, 3742891.223, 440.85, 0.00, 1.70  
 \*\* 479705.988, 3742891.905, 441.01, 0.00, 1.70  
 \*\* 479678.715, 3742890.836, 441.09, 0.00, 1.70  
 \*\* 479665.980, 3742896.710, 441.18, 0.00, 1.70  
 \*\* 479633.961, 3742950.034, 441.20, 0.00, 1.70  
 \*\* 479618.374, 3742985.797, 441.39, 0.00, 1.70  
 \*\* 479638.678, 3742985.699, 441.24, 0.00, 1.70  
 \*\* 479638.938, 3743042.012, 441.34, 0.00, 1.70  
 \*\* 479581.598, 3743042.415, 441.62, 0.00, 1.70

-----

LOCATION	VOLUME				
LOCATION L0007106	VOLUME	479885.061	3742886.073	440.49	
LOCATION L0007107	VOLUME	479881.404	3742886.072	440.48	
LOCATION L0007108	VOLUME	479877.746	3742886.072	440.46	
LOCATION L0007109	VOLUME	479874.088	3742886.071	440.45	
LOCATION L0007110	VOLUME	479870.431	3742886.071	440.43	
LOCATION L0007111	VOLUME	479866.773	3742886.070	440.42	
LOCATION L0007112	VOLUME	479863.116	3742886.070	440.40	
LOCATION L0007113	VOLUME	479859.458	3742886.069	440.40	
LOCATION L0007114	VOLUME	479855.800	3742886.069	440.41	
LOCATION L0007115	VOLUME	479852.143	3742886.068	440.42	
LOCATION L0007116	VOLUME	479848.485	3742886.068	440.43	
LOCATION L0007117	VOLUME	479844.828	3742886.068	440.45	
LOCATION L0007118	VOLUME	479841.170	3742886.067	440.46	
LOCATION L0007119	VOLUME	479837.512	3742886.067	440.47	
LOCATION L0007120	VOLUME	479833.855	3742886.066	440.49	
LOCATION L0007121	VOLUME	479830.197	3742886.066	440.51	
LOCATION L0007122	VOLUME	479826.540	3742886.065	440.54	
LOCATION L0007123	VOLUME	479822.882	3742886.065	440.56	
LOCATION L0007124	VOLUME	479819.224	3742886.064	440.58	
LOCATION L0007125	VOLUME	479815.580	3742886.319	440.61	
LOCATION L0007126	VOLUME	479811.941	3742886.692	440.63	
LOCATION L0007127	VOLUME	479808.303	3742887.066	440.65	
LOCATION L0007128	VOLUME	479804.664	3742887.439	440.67	
LOCATION L0007129	VOLUME	479801.026	3742887.812	440.68	
LOCATION L0007130	VOLUME	479797.387	3742888.186	440.70	
LOCATION L0007131	VOLUME	479793.749	3742888.559	440.72	
LOCATION L0007132	VOLUME	479790.110	3742888.932	440.73	
LOCATION L0007133	VOLUME	479786.472	3742889.306	440.75	
LOCATION L0007134	VOLUME	479782.833	3742889.679	440.76	
LOCATION L0007135	VOLUME	479779.195	3742890.052	440.78	
LOCATION L0007136	VOLUME	479775.556	3742890.426	440.79	
LOCATION L0007137	VOLUME	479771.918	3742890.799	440.80	
LOCATION L0007138	VOLUME	479768.279	3742891.172	440.81	
LOCATION L0007139	VOLUME	479764.624	3742891.258	440.82	
LOCATION L0007140	VOLUME	479760.967	3742891.298	440.84	
LOCATION L0007141	VOLUME	479757.310	3742891.339	440.85	
LOCATION L0007142	VOLUME	479753.652	3742891.379	440.86	
LOCATION L0007143	VOLUME	479749.995	3742891.419	440.87	
LOCATION L0007144	VOLUME	479746.338	3742891.460	440.89	
LOCATION L0007145	VOLUME	479742.680	3742891.500	440.90	
LOCATION L0007146	VOLUME	479739.023	3742891.540	440.91	

LOCATION	L0007147	VOLUME	479735.365	3742891.581	440.92
LOCATION	L0007148	VOLUME	479731.708	3742891.621	440.94
LOCATION	L0007149	VOLUME	479728.051	3742891.662	440.95
LOCATION	L0007150	VOLUME	479724.393	3742891.702	440.96
LOCATION	L0007151	VOLUME	479720.736	3742891.742	440.97
LOCATION	L0007152	VOLUME	479717.079	3742891.783	440.98
LOCATION	L0007153	VOLUME	479713.421	3742891.823	440.99
LOCATION	L0007154	VOLUME	479709.764	3742891.864	441.00
LOCATION	L0007155	VOLUME	479706.106	3742891.904	441.01
LOCATION	L0007156	VOLUME	479702.452	3742891.767	441.02
LOCATION	L0007157	VOLUME	479698.797	3742891.623	441.03
LOCATION	L0007158	VOLUME	479695.142	3742891.480	441.04
LOCATION	L0007159	VOLUME	479691.487	3742891.337	441.06
LOCATION	L0007160	VOLUME	479687.832	3742891.194	441.07
LOCATION	L0007161	VOLUME	479684.178	3742891.050	441.08
LOCATION	L0007162	VOLUME	479680.523	3742890.907	441.09
LOCATION	L0007163	VOLUME	479677.037	3742891.611	441.11
LOCATION	L0007164	VOLUME	479673.715	3742893.142	441.12
LOCATION	L0007165	VOLUME	479670.394	3742894.674	441.13
LOCATION	L0007166	VOLUME	479667.072	3742896.206	441.14
LOCATION	L0007167	VOLUME	479664.716	3742898.814	441.15
LOCATION	L0007168	VOLUME	479662.833	3742901.950	441.16
LOCATION	L0007169	VOLUME	479660.951	3742905.086	441.16
LOCATION	L0007170	VOLUME	479659.068	3742908.221	441.17
LOCATION	L0007171	VOLUME	479657.185	3742911.357	441.17
LOCATION	L0007172	VOLUME	479655.302	3742914.493	441.17
LOCATION	L0007173	VOLUME	479653.419	3742917.629	441.17
LOCATION	L0007174	VOLUME	479651.536	3742920.764	441.17
LOCATION	L0007175	VOLUME	479649.653	3742923.900	441.18
LOCATION	L0007176	VOLUME	479647.770	3742927.036	441.18
LOCATION	L0007177	VOLUME	479645.887	3742930.171	441.18
LOCATION	L0007178	VOLUME	479644.004	3742933.307	441.17
LOCATION	L0007179	VOLUME	479642.122	3742936.443	441.17
LOCATION	L0007180	VOLUME	479640.239	3742939.579	441.17
LOCATION	L0007181	VOLUME	479638.356	3742942.714	441.17
LOCATION	L0007182	VOLUME	479636.473	3742945.850	441.17
LOCATION	L0007183	VOLUME	479634.590	3742948.986	441.18
LOCATION	L0007184	VOLUME	479632.988	3742952.266	441.19
LOCATION	L0007185	VOLUME	479631.526	3742955.619	441.20
LOCATION	L0007186	VOLUME	479630.065	3742958.972	441.20
LOCATION	L0007187	VOLUME	479628.604	3742962.325	441.21
LOCATION	L0007188	VOLUME	479627.142	3742965.678	441.23
LOCATION	L0007189	VOLUME	479625.681	3742969.031	441.24
LOCATION	L0007190	VOLUME	479624.220	3742972.384	441.25
LOCATION	L0007191	VOLUME	479622.758	3742975.737	441.26
LOCATION	L0007192	VOLUME	479621.297	3742979.090	441.28
LOCATION	L0007193	VOLUME	479619.836	3742982.443	441.29
LOCATION	L0007194	VOLUME	479618.374	3742985.796	441.30
LOCATION	L0007195	VOLUME	479622.030	3742985.779	441.28
LOCATION	L0007196	VOLUME	479625.688	3742985.762	441.26
LOCATION	L0007197	VOLUME	479629.345	3742985.744	441.24

LOCATION	VOLUME				
LOCATION L0007198	VOLUME	479633.003	3742985.726	441.22	
LOCATION L0007199	VOLUME	479636.660	3742985.708	441.21	
LOCATION L0007200	VOLUME	479638.686	3742987.339	441.20	
LOCATION L0007201	VOLUME	479638.703	3742990.996	441.21	
LOCATION L0007202	VOLUME	479638.720	3742994.654	441.22	
LOCATION L0007203	VOLUME	479638.736	3742998.311	441.23	
LOCATION L0007204	VOLUME	479638.753	3743001.969	441.24	
LOCATION L0007205	VOLUME	479638.770	3743005.626	441.26	
LOCATION L0007206	VOLUME	479638.787	3743009.284	441.26	
LOCATION L0007207	VOLUME	479638.804	3743012.941	441.27	
LOCATION L0007208	VOLUME	479638.821	3743016.599	441.28	
LOCATION L0007209	VOLUME	479638.838	3743020.257	441.29	
LOCATION L0007210	VOLUME	479638.855	3743023.914	441.30	
LOCATION L0007211	VOLUME	479638.872	3743027.572	441.31	
LOCATION L0007212	VOLUME	479638.889	3743031.229	441.32	
LOCATION L0007213	VOLUME	479638.906	3743034.887	441.33	
LOCATION L0007214	VOLUME	479638.922	3743038.544	441.34	
LOCATION L0007215	VOLUME	479638.749	3743042.013	441.36	
LOCATION L0007216	VOLUME	479635.091	3743042.039	441.36	
LOCATION L0007217	VOLUME	479631.434	3743042.065	441.37	
LOCATION L0007218	VOLUME	479627.776	3743042.091	441.38	
LOCATION L0007219	VOLUME	479624.119	3743042.116	441.39	
LOCATION L0007220	VOLUME	479620.461	3743042.142	441.40	
LOCATION L0007221	VOLUME	479616.804	3743042.168	441.42	
LOCATION L0007222	VOLUME	479613.146	3743042.193	441.43	
LOCATION L0007223	VOLUME	479609.489	3743042.219	441.44	
LOCATION L0007224	VOLUME	479605.831	3743042.245	441.45	
LOCATION L0007225	VOLUME	479602.174	3743042.270	441.47	
LOCATION L0007226	VOLUME	479598.516	3743042.296	441.50	
LOCATION L0007227	VOLUME	479594.859	3743042.322	441.52	
LOCATION L0007228	VOLUME	479591.201	3743042.347	441.55	
LOCATION L0007229	VOLUME	479587.543	3743042.373	441.58	
LOCATION L0007230	VOLUME	479583.886	3743042.399	441.60	

```

** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite from northern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 3.21E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 4
** 479889.642, 3743102.412, 441.04, 0.00, 1.70
** 479816.557, 3743101.433, 441.04, 0.00, 1.70
** 479778.789, 3743093.729, 441.12, 0.00, 1.70
** 479547.668, 3743097.718, 441.55, 0.00, 1.70
** -----

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LOCATION	L0007356	VOLUME	479887.813	3743102.387	441.03
LOCATION	L0007357	VOLUME	479884.156	3743102.338	441.04
LOCATION	L0007358	VOLUME	479880.498	3743102.289	441.03
LOCATION	L0007359	VOLUME	479876.841	3743102.240	441.02
LOCATION	L0007360	VOLUME	479873.184	3743102.191	441.01
LOCATION	L0007361	VOLUME	479869.527	3743102.142	441.00
LOCATION	L0007362	VOLUME	479865.869	3743102.094	441.00
LOCATION	L0007363	VOLUME	479862.212	3743102.045	440.99
LOCATION	L0007364	VOLUME	479858.555	3743101.996	440.99
LOCATION	L0007365	VOLUME	479854.897	3743101.947	440.99
LOCATION	L0007366	VOLUME	479851.240	3743101.898	441.00
LOCATION	L0007367	VOLUME	479847.583	3743101.849	441.00
LOCATION	L0007368	VOLUME	479843.926	3743101.800	441.01
LOCATION	L0007369	VOLUME	479840.268	3743101.751	441.02
LOCATION	L0007370	VOLUME	479836.611	3743101.702	441.02
LOCATION	L0007371	VOLUME	479832.954	3743101.653	441.03
LOCATION	L0007372	VOLUME	479829.297	3743101.604	441.03
LOCATION	L0007373	VOLUME	479825.639	3743101.555	441.03
LOCATION	L0007374	VOLUME	479821.982	3743101.506	441.04
LOCATION	L0007375	VOLUME	479818.325	3743101.457	441.04
LOCATION	L0007376	VOLUME	479814.705	3743101.056	441.05
LOCATION	L0007377	VOLUME	479811.122	3743100.324	441.05
LOCATION	L0007378	VOLUME	479807.538	3743099.593	441.06
LOCATION	L0007379	VOLUME	479803.954	3743098.862	441.07
LOCATION	L0007380	VOLUME	479800.370	3743098.131	441.08
LOCATION	L0007381	VOLUME	479796.786	3743097.400	441.09
LOCATION	L0007382	VOLUME	479793.203	3743096.669	441.10
LOCATION	L0007383	VOLUME	479789.619	3743095.938	441.10
LOCATION	L0007384	VOLUME	479786.035	3743095.207	441.11
LOCATION	L0007385	VOLUME	479782.451	3743094.476	441.12
LOCATION	L0007386	VOLUME	479778.867	3743093.745	441.13
LOCATION	L0007387	VOLUME	479775.212	3743093.791	441.14
LOCATION	L0007388	VOLUME	479771.555	3743093.854	441.15
LOCATION	L0007389	VOLUME	479767.898	3743093.917	441.16
LOCATION	L0007390	VOLUME	479764.241	3743093.980	441.17
LOCATION	L0007391	VOLUME	479760.584	3743094.043	441.18
LOCATION	L0007392	VOLUME	479756.927	3743094.106	441.19
LOCATION	L0007393	VOLUME	479753.270	3743094.169	441.18
LOCATION	L0007394	VOLUME	479749.613	3743094.233	441.18
LOCATION	L0007395	VOLUME	479745.956	3743094.296	441.17
LOCATION	L0007396	VOLUME	479742.298	3743094.359	441.16
LOCATION	L0007397	VOLUME	479738.641	3743094.422	441.16
LOCATION	L0007398	VOLUME	479734.984	3743094.485	441.15
LOCATION	L0007399	VOLUME	479731.327	3743094.548	441.15
LOCATION	L0007400	VOLUME	479727.670	3743094.611	441.15
LOCATION	L0007401	VOLUME	479724.013	3743094.674	441.15
LOCATION	L0007402	VOLUME	479720.356	3743094.738	441.15
LOCATION	L0007403	VOLUME	479716.699	3743094.801	441.15
LOCATION	L0007404	VOLUME	479713.042	3743094.864	441.15
LOCATION	L0007405	VOLUME	479709.385	3743094.927	441.15
LOCATION	L0007406	VOLUME	479705.728	3743094.990	441.16



LOCATION	VOLUME				
LOCATION L0007407	VOLUME	479702.071	3743095.053	441.16	
LOCATION L0007408	VOLUME	479698.414	3743095.116	441.17	
LOCATION L0007409	VOLUME	479694.757	3743095.179	441.18	
LOCATION L0007410	VOLUME	479691.100	3743095.242	441.19	
LOCATION L0007411	VOLUME	479687.443	3743095.306	441.20	
LOCATION L0007412	VOLUME	479683.786	3743095.369	441.20	
LOCATION L0007413	VOLUME	479680.129	3743095.432	441.21	
LOCATION L0007414	VOLUME	479676.471	3743095.495	441.21	
LOCATION L0007415	VOLUME	479672.814	3743095.558	441.22	
LOCATION L0007416	VOLUME	479669.157	3743095.621	441.22	
LOCATION L0007417	VOLUME	479665.500	3743095.684	441.23	
LOCATION L0007418	VOLUME	479661.843	3743095.747	441.23	
LOCATION L0007419	VOLUME	479658.186	3743095.810	441.23	
LOCATION L0007420	VOLUME	479654.529	3743095.874	441.24	
LOCATION L0007421	VOLUME	479650.872	3743095.937	441.24	
LOCATION L0007422	VOLUME	479647.215	3743096.000	441.24	
LOCATION L0007423	VOLUME	479643.558	3743096.063	441.24	
LOCATION L0007424	VOLUME	479639.901	3743096.126	441.24	
LOCATION L0007425	VOLUME	479636.244	3743096.189	441.24	
LOCATION L0007426	VOLUME	479632.587	3743096.252	441.24	
LOCATION L0007427	VOLUME	479628.930	3743096.315	441.24	
LOCATION L0007428	VOLUME	479625.273	3743096.379	441.25	
LOCATION L0007429	VOLUME	479621.616	3743096.442	441.26	
LOCATION L0007430	VOLUME	479617.959	3743096.505	441.27	
LOCATION L0007431	VOLUME	479614.302	3743096.568	441.28	
LOCATION L0007432	VOLUME	479610.644	3743096.631	441.29	
LOCATION L0007433	VOLUME	479606.987	3743096.694	441.30	
LOCATION L0007434	VOLUME	479603.330	3743096.757	441.31	
LOCATION L0007435	VOLUME	479599.673	3743096.820	441.33	
LOCATION L0007436	VOLUME	479596.016	3743096.883	441.34	
LOCATION L0007437	VOLUME	479592.359	3743096.947	441.35	
LOCATION L0007438	VOLUME	479588.702	3743097.010	441.36	
LOCATION L0007439	VOLUME	479585.045	3743097.073	441.38	
LOCATION L0007440	VOLUME	479581.388	3743097.136	441.39	
LOCATION L0007441	VOLUME	479577.731	3743097.199	441.40	
LOCATION L0007442	VOLUME	479574.074	3743097.262	441.42	
LOCATION L0007443	VOLUME	479570.417	3743097.325	441.44	
LOCATION L0007444	VOLUME	479566.760	3743097.388	441.47	
LOCATION L0007445	VOLUME	479563.103	3743097.451	441.49	
LOCATION L0007446	VOLUME	479559.446	3743097.515	441.51	
LOCATION L0007447	VOLUME	479555.789	3743097.578	441.53	
LOCATION L0007448	VOLUME	479552.132	3743097.641	441.55	
LOCATION L0007449	VOLUME	479548.475	3743097.704	441.55	

\*\* End of LINE VOLUME Source ID = SLINE2  
 \*\* -----  
 \*\* Line Source Represented by Adjacent Volume Sources  
 \*\* LINE VOLUME Source ID = SLINE3  
 \*\* DESCRSRC Offsite Redlands Ave S project driveway to N project driveway  
 \*\* PREFIX  
 \*\* Length of Side = 3.66  
 \*\* Configuration = Adjacent

```

** Emission Rate = 1.2E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 479890.384, 3742886.270, 440.49, 0.00, 1.70
** 479890.599, 3743102.594, 441.04, 0.00, 1.70

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** -----
LOCATION L0007636    VOLUME  479890.386 3742888.098 440.47
LOCATION L0007637    VOLUME  479890.390 3742891.756 440.46
LOCATION L0007638    VOLUME  479890.393 3742895.414 440.46
LOCATION L0007639    VOLUME  479890.397 3742899.071 440.45
LOCATION L0007640    VOLUME  479890.401 3742902.729 440.45
LOCATION L0007641    VOLUME  479890.404 3742906.386 440.44
LOCATION L0007642    VOLUME  479890.408 3742910.044 440.44
LOCATION L0007643    VOLUME  479890.412 3742913.702 440.43
LOCATION L0007644    VOLUME  479890.415 3742917.359 440.44
LOCATION L0007645    VOLUME  479890.419 3742921.017 440.44
LOCATION L0007646    VOLUME  479890.422 3742924.674 440.45
LOCATION L0007647    VOLUME  479890.426 3742928.332 440.45
LOCATION L0007648    VOLUME  479890.430 3742931.990 440.45
LOCATION L0007649    VOLUME  479890.433 3742935.647 440.46
LOCATION L0007650    VOLUME  479890.437 3742939.305 440.46
LOCATION L0007651    VOLUME  479890.441 3742942.962 440.47
LOCATION L0007652    VOLUME  479890.444 3742946.620 440.47
LOCATION L0007653    VOLUME  479890.448 3742950.278 440.48
LOCATION L0007654    VOLUME  479890.452 3742953.935 440.48
LOCATION L0007655    VOLUME  479890.455 3742957.593 440.49
LOCATION L0007656    VOLUME  479890.459 3742961.250 440.49
LOCATION L0007657    VOLUME  479890.462 3742964.908 440.50
LOCATION L0007658    VOLUME  479890.466 3742968.566 440.50
LOCATION L0007659    VOLUME  479890.470 3742972.223 440.51
LOCATION L0007660    VOLUME  479890.473 3742975.881 440.52
LOCATION L0007661    VOLUME  479890.477 3742979.538 440.52
LOCATION L0007662    VOLUME  479890.481 3742983.196 440.53
LOCATION L0007663    VOLUME  479890.484 3742986.854 440.53
LOCATION L0007664    VOLUME  479890.488 3742990.511 440.54
LOCATION L0007665    VOLUME  479890.491 3742994.169 440.54
LOCATION L0007666    VOLUME  479890.495 3742997.826 440.55
LOCATION L0007667    VOLUME  479890.499 3743001.484 440.55
LOCATION L0007668    VOLUME  479890.502 3743005.142 440.56
LOCATION L0007669    VOLUME  479890.506 3743008.799 440.57
LOCATION L0007670    VOLUME  479890.510 3743012.457 440.59
LOCATION L0007671    VOLUME  479890.513 3743016.114 440.61
LOCATION L0007672    VOLUME  479890.517 3743019.772 440.62
LOCATION L0007673    VOLUME  479890.520 3743023.430 440.64
LOCATION L0007674    VOLUME  479890.524 3743027.087 440.65
LOCATION L0007675    VOLUME  479890.528 3743030.745 440.67
LOCATION L0007676    VOLUME  479890.531 3743034.402 440.69
LOCATION L0007677    VOLUME  479890.535 3743038.060 440.70
LOCATION L0007678    VOLUME  479890.539 3743041.718 440.73

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LOCATION	VOLUME	479890.542	3743045.375	440.75
LOCATION L0007679	VOLUME	479890.542	3743045.375	440.75
LOCATION L0007680	VOLUME	479890.546	3743049.033	440.77
LOCATION L0007681	VOLUME	479890.550	3743052.690	440.79
LOCATION L0007682	VOLUME	479890.553	3743056.348	440.81
LOCATION L0007683	VOLUME	479890.557	3743060.006	440.83
LOCATION L0007684	VOLUME	479890.560	3743063.663	440.85
LOCATION L0007685	VOLUME	479890.564	3743067.321	440.87
LOCATION L0007686	VOLUME	479890.568	3743070.978	440.89
LOCATION L0007687	VOLUME	479890.571	3743074.636	440.90
LOCATION L0007688	VOLUME	479890.575	3743078.294	440.92
LOCATION L0007689	VOLUME	479890.579	3743081.951	440.93
LOCATION L0007690	VOLUME	479890.582	3743085.609	440.95
LOCATION L0007691	VOLUME	479890.586	3743089.266	440.96
LOCATION L0007692	VOLUME	479890.589	3743092.924	440.98
LOCATION L0007693	VOLUME	479890.593	3743096.582	441.00
LOCATION L0007694	VOLUME	479890.597	3743100.239	441.00

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Offsite Redlands Ave north of northern project driveway

\*\* PREFIX

\*\* Length of Side = 3.66

\*\* Configuration = Adjacent

\*\* Emission Rate = 5.14E-06

\*\* Elevated

\*\* Vertical Dimension = 3.66

\*\* SZINIT = 0.85

\*\* Nodes = 5

\*\* 479890.143, 3743103.577, 441.04, 0.00, 1.70

\*\* 479896.144, 3743335.805, 440.42, 0.00, 1.70

\*\* 479904.078, 3743363.665, 440.21, 0.00, 1.70

\*\* 479907.418, 3743562.283, 439.77, 0.00, 1.70

\*\* 479907.757, 3743565.880, 439.77, 0.00, 1.70

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LOCATION L0007695	VOLUME	479890.190	3743105.405	441.00
LOCATION L0007696	VOLUME	479890.285	3743109.061	441.00
LOCATION L0007697	VOLUME	479890.379	3743112.717	440.99
LOCATION L0007698	VOLUME	479890.474	3743116.374	440.99
LOCATION L0007699	VOLUME	479890.568	3743120.030	440.99
LOCATION L0007700	VOLUME	479890.663	3743123.687	440.99
LOCATION L0007701	VOLUME	479890.757	3743127.343	440.99
LOCATION L0007702	VOLUME	479890.852	3743130.999	440.98
LOCATION L0007703	VOLUME	479890.946	3743134.656	440.97
LOCATION L0007704	VOLUME	479891.041	3743138.312	440.97
LOCATION L0007705	VOLUME	479891.135	3743141.969	440.96
LOCATION L0007706	VOLUME	479891.230	3743145.625	440.95
LOCATION L0007707	VOLUME	479891.324	3743149.281	440.95
LOCATION L0007708	VOLUME	479891.419	3743152.938	440.94
LOCATION L0007709	VOLUME	479891.513	3743156.594	440.93
LOCATION L0007710	VOLUME	479891.607	3743160.250	440.92

LOCATION L0007711	VOLUME	479891.702	3743163.907	440.91
LOCATION L0007712	VOLUME	479891.796	3743167.563	440.90
LOCATION L0007713	VOLUME	479891.891	3743171.220	440.89
LOCATION L0007714	VOLUME	479891.985	3743174.876	440.88
LOCATION L0007715	VOLUME	479892.080	3743178.532	440.87
LOCATION L0007716	VOLUME	479892.174	3743182.189	440.86
LOCATION L0007717	VOLUME	479892.269	3743185.845	440.85
LOCATION L0007718	VOLUME	479892.363	3743189.501	440.84
LOCATION L0007719	VOLUME	479892.458	3743193.158	440.83
LOCATION L0007720	VOLUME	479892.552	3743196.814	440.83
LOCATION L0007721	VOLUME	479892.647	3743200.471	440.82
LOCATION L0007722	VOLUME	479892.741	3743204.127	440.81
LOCATION L0007723	VOLUME	479892.836	3743207.783	440.81
LOCATION L0007724	VOLUME	479892.930	3743211.440	440.80
LOCATION L0007725	VOLUME	479893.025	3743215.096	440.79
LOCATION L0007726	VOLUME	479893.119	3743218.752	440.79
LOCATION L0007727	VOLUME	479893.214	3743222.409	440.78
LOCATION L0007728	VOLUME	479893.308	3743226.065	440.77
LOCATION L0007729	VOLUME	479893.403	3743229.722	440.77
LOCATION L0007730	VOLUME	479893.497	3743233.378	440.76
LOCATION L0007731	VOLUME	479893.592	3743237.034	440.75
LOCATION L0007732	VOLUME	479893.686	3743240.691	440.75
LOCATION L0007733	VOLUME	479893.780	3743244.347	440.74
LOCATION L0007734	VOLUME	479893.875	3743248.004	440.73
LOCATION L0007735	VOLUME	479893.969	3743251.660	440.73
LOCATION L0007736	VOLUME	479894.064	3743255.316	440.72
LOCATION L0007737	VOLUME	479894.158	3743258.973	440.70
LOCATION L0007738	VOLUME	479894.253	3743262.629	440.69
LOCATION L0007739	VOLUME	479894.347	3743266.285	440.68
LOCATION L0007740	VOLUME	479894.442	3743269.942	440.67
LOCATION L0007741	VOLUME	479894.536	3743273.598	440.65
LOCATION L0007742	VOLUME	479894.631	3743277.255	440.64
LOCATION L0007743	VOLUME	479894.725	3743280.911	440.63
LOCATION L0007744	VOLUME	479894.820	3743284.567	440.62
LOCATION L0007745	VOLUME	479894.914	3743288.224	440.61
LOCATION L0007746	VOLUME	479895.009	3743291.880	440.60
LOCATION L0007747	VOLUME	479895.103	3743295.536	440.59
LOCATION L0007748	VOLUME	479895.198	3743299.193	440.57
LOCATION L0007749	VOLUME	479895.292	3743302.849	440.56
LOCATION L0007750	VOLUME	479895.387	3743306.506	440.55
LOCATION L0007751	VOLUME	479895.481	3743310.162	440.54
LOCATION L0007752	VOLUME	479895.576	3743313.818	440.53
LOCATION L0007753	VOLUME	479895.670	3743317.475	440.51
LOCATION L0007754	VOLUME	479895.765	3743321.131	440.50
LOCATION L0007755	VOLUME	479895.859	3743324.787	440.48
LOCATION L0007756	VOLUME	479895.953	3743328.444	440.47
LOCATION L0007757	VOLUME	479896.048	3743332.100	440.45
LOCATION L0007758	VOLUME	479896.142	3743335.757	440.44
LOCATION L0007759	VOLUME	479897.132	3743339.276	440.42
LOCATION L0007760	VOLUME	479898.134	3743342.794	440.40
LOCATION L0007761	VOLUME	479899.136	3743346.312	440.38

LOCATION	L0007762	VOLUME	479900.138	3743349.829	440.35
LOCATION	L0007763	VOLUME	479901.139	3743353.347	440.32
LOCATION	L0007764	VOLUME	479902.141	3743356.865	440.29
LOCATION	L0007765	VOLUME	479903.143	3743360.383	440.27
LOCATION	L0007766	VOLUME	479904.082	3743363.910	440.25
LOCATION	L0007767	VOLUME	479904.144	3743367.567	440.22
LOCATION	L0007768	VOLUME	479904.205	3743371.224	440.19
LOCATION	L0007769	VOLUME	479904.267	3743374.881	440.17
LOCATION	L0007770	VOLUME	479904.328	3743378.538	440.13
LOCATION	L0007771	VOLUME	479904.390	3743382.195	440.10
LOCATION	L0007772	VOLUME	479904.451	3743385.852	440.06
LOCATION	L0007773	VOLUME	479904.513	3743389.509	440.03
LOCATION	L0007774	VOLUME	479904.574	3743393.166	439.99
LOCATION	L0007775	VOLUME	479904.636	3743396.823	439.96
LOCATION	L0007776	VOLUME	479904.697	3743400.480	439.93
LOCATION	L0007777	VOLUME	479904.758	3743404.138	439.89
LOCATION	L0007778	VOLUME	479904.820	3743407.795	439.88
LOCATION	L0007779	VOLUME	479904.881	3743411.452	439.87
LOCATION	L0007780	VOLUME	479904.943	3743415.109	439.87
LOCATION	L0007781	VOLUME	479905.004	3743418.766	439.86
LOCATION	L0007782	VOLUME	479905.066	3743422.423	439.85
LOCATION	L0007783	VOLUME	479905.127	3743426.080	439.85
LOCATION	L0007784	VOLUME	479905.189	3743429.737	439.84
LOCATION	L0007785	VOLUME	479905.250	3743433.394	439.83
LOCATION	L0007786	VOLUME	479905.312	3743437.051	439.83
LOCATION	L0007787	VOLUME	479905.373	3743440.708	439.85
LOCATION	L0007788	VOLUME	479905.435	3743444.365	439.86
LOCATION	L0007789	VOLUME	479905.496	3743448.023	439.88
LOCATION	L0007790	VOLUME	479905.558	3743451.680	439.90
LOCATION	L0007791	VOLUME	479905.619	3743455.337	439.91
LOCATION	L0007792	VOLUME	479905.681	3743458.994	439.93
LOCATION	L0007793	VOLUME	479905.742	3743462.651	439.94
LOCATION	L0007794	VOLUME	479905.804	3743466.308	439.96
LOCATION	L0007795	VOLUME	479905.865	3743469.965	439.95
LOCATION	L0007796	VOLUME	479905.927	3743473.622	439.94
LOCATION	L0007797	VOLUME	479905.988	3743477.279	439.93
LOCATION	L0007798	VOLUME	479906.050	3743480.936	439.91
LOCATION	L0007799	VOLUME	479906.111	3743484.593	439.90
LOCATION	L0007800	VOLUME	479906.173	3743488.250	439.89
LOCATION	L0007801	VOLUME	479906.234	3743491.908	439.88
LOCATION	L0007802	VOLUME	479906.296	3743495.565	439.86
LOCATION	L0007803	VOLUME	479906.357	3743499.222	439.85
LOCATION	L0007804	VOLUME	479906.419	3743502.879	439.84
LOCATION	L0007805	VOLUME	479906.480	3743506.536	439.84
LOCATION	L0007806	VOLUME	479906.542	3743510.193	439.83
LOCATION	L0007807	VOLUME	479906.603	3743513.850	439.82
LOCATION	L0007808	VOLUME	479906.665	3743517.507	439.81
LOCATION	L0007809	VOLUME	479906.726	3743521.164	439.80
LOCATION	L0007810	VOLUME	479906.788	3743524.821	439.79
LOCATION	L0007811	VOLUME	479906.849	3743528.478	439.78
LOCATION	L0007812	VOLUME	479906.911	3743532.135	439.78

LOCATION	L0007813	VOLUME	479906.972	3743535.792	439.77
LOCATION	L0007814	VOLUME	479907.034	3743539.450	439.77
LOCATION	L0007815	VOLUME	479907.095	3743543.107	439.76
LOCATION	L0007816	VOLUME	479907.157	3743546.764	439.75
LOCATION	L0007817	VOLUME	479907.218	3743550.421	439.75
LOCATION	L0007818	VOLUME	479907.280	3743554.078	439.74
LOCATION	L0007819	VOLUME	479907.341	3743557.735	439.74
LOCATION	L0007820	VOLUME	479907.403	3743561.392	439.73
LOCATION	L0007821	VOLUME	479907.678	3743565.037	439.73
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	479782.060	3742912.560	440.710
** DESCRSRC Idle 1					
LOCATION	STCK2	POINT	479715.190	3742912.990	440.960
** DESCRSRC Idle 2					
LOCATION	STCK3	POINT	479747.590	3742881.180	440.910
** DESCRSRC Idle 3					
LOCATION	STCK4	POINT	479780.300	3743074.970	441.090
** DESCRSRC Idle 4					
LOCATION	STCK5	POINT	479686.860	3743078.130	441.280
** DESCRSRC Idle 5					
LOCATION	STCK6	POINT	479594.670	3743090.200	441.400
** DESCRSRC Idle 6					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0007106	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007107	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007108	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007109	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007110	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007111	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007112	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007113	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007114	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007115	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007116	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007117	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007118	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007119	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007120	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007121	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007122	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007123	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007124	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007125	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007126	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007127	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007128	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007129	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007130	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007131	0.0000003432	0.00	1.70	6.52
SRCPARAM	L0007132	0.0000003432	0.00	1.70	6.52



SRCPARAM	L0007184	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007185	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007186	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007187	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007188	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007189	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007190	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007191	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007192	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007193	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007194	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007195	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007196	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007197	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007198	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007199	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007200	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007201	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007202	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007203	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007204	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007205	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007206	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007207	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007208	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007209	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007210	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007211	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007212	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007213	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007214	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007215	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007216	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007217	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007218	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007219	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007220	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007221	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007222	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007223	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007224	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007225	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007226	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007227	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007228	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007229	0.00000003432	0.00	1.70	6.52
SRCPARAM	L0007230	0.00000003432	0.00	1.70	6.52

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 \*\* LINE VOLUME Source ID = SLINE2

SRCPARAM	L0007356	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007357	0.00000003415	0.00	1.70	6.52





SRCPARAM	L0007409	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007410	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007411	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007412	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007413	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007414	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007415	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007416	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007417	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007418	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007419	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007420	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007421	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007422	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007423	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007424	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007425	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007426	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007427	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007428	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007429	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007430	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007431	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007432	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007433	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007434	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007435	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007436	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007437	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007438	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007439	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007440	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007441	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007442	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007443	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007444	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007445	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007446	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007447	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007448	0.00000003415	0.00	1.70	6.52
SRCPARAM	L0007449	0.00000003415	0.00	1.70	6.52

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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM	L0007636	0.00000002034	0.00	1.70	0.85
SRCPARAM	L0007637	0.00000002034	0.00	1.70	0.85
SRCPARAM	L0007638	0.00000002034	0.00	1.70	0.85
SRCPARAM	L0007639	0.00000002034	0.00	1.70	0.85
SRCPARAM	L0007640	0.00000002034	0.00	1.70	0.85
SRCPARAM	L0007641	0.00000002034	0.00	1.70	0.85
SRCPARAM	L0007642	0.00000002034	0.00	1.70	0.85
SRCPARAM	L0007643	0.00000002034	0.00	1.70	0.85



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** LINE VOLUME Source ID = SLINE4
SRCPARAM L0007695 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007696 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007697 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007698 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007699 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007700 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007701 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007702 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007703 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007704 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007705 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007706 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007707 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007708 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007709 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007710 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007711 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007712 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007713 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007714 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007715 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007716 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007717 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007718 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007719 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007720 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007721 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007722 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007723 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007724 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007725 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007726 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007727 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007728 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007729 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007730 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007731 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007732 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007733 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007734 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007735 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007736 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007737 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007738 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007739 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007740 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007741 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007742 0.00000004047 0.00 1.70 0.85
SRCPARAM L0007743 0.00000004047 0.00 1.70 0.85

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SRCPARAM	L0007795	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007796	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007797	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007798	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007799	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007800	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007801	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007802	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007803	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007804	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007805	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007806	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007807	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007808	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007809	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007810	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007811	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007812	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007813	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007814	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007815	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007816	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007817	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007818	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007819	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007820	0.00000004047	0.00	1.70	0.85
SRCPARAM	L0007821	0.00000004047	0.00	1.70	0.85

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SRCPARAM	STCK1	0.0000115	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000115	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000115	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000115	3.658	366.000	51.90000	0.100
SRCPARAM	STCK5	0.0000115	3.658	366.000	51.90000	0.100
SRCPARAM	STCK6	0.0000115	3.658	366.000	51.90000	0.100

\*\* Building Downwash \*\*

BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02

BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	14.02	14.02	14.02	14.02	0.00	0.00
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01

BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	186.37	194.99	219.24	236.83
BUILDWID	STCK6	247.22	250.11	246.23	238.75	0.00	0.00
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29



BUILDLLEN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	205.01	228.19	246.99	258.29
BUILDLLEN	STCK6	261.74	257.23	244.91	225.15	0.00	0.00
XBADJ	STCK1	-14.33	-35.21	-55.02	-73.16	-89.07	-103.12
XBADJ	STCK1	-117.90	-129.11	-136.39	-161.49	-181.67	-196.34
XBADJ	STCK1	-205.04	-207.52	-203.68	-193.66	-177.76	-174.35
XBADJ	STCK1	-180.65	-184.03	-181.81	-174.07	-161.04	-143.11
XBADJ	STCK1	-120.84	-94.90	-68.62	-66.71	-65.32	-61.95
XBADJ	STCK1	-56.69	-49.72	-41.23	-31.49	-20.79	-12.02
XBADJ	STCK2	-3.15	-12.75	-21.96	-30.50	-38.12	-45.42
XBADJ	STCK2	-55.21	-63.33	-69.52	-95.56	-118.69	-138.22
XBADJ	STCK2	-153.54	-164.20	-169.88	-170.39	-165.72	-173.92
XBADJ	STCK2	-191.84	-206.49	-214.87	-216.72	-211.99	-200.81
XBADJ	STCK2	-183.53	-160.68	-135.49	-132.64	-128.31	-120.07
XBADJ	STCK2	-108.20	-93.03	-75.03	-54.76	-32.82	-12.45
XBADJ	STCK3	22.56	6.07	-10.61	-26.96	-42.49	-57.58
XBADJ	STCK3	-74.78	-89.71	0.00	0.00	-160.02	-182.18
XBADJ	STCK3	-198.81	-209.40	-213.63	-211.36	-202.67	-205.73
XBADJ	STCK3	-217.54	-225.30	-226.22	-220.26	-207.61	-188.66
XBADJ	STCK3	-163.96	-134.29	0.00	0.00	-86.98	-76.11
XBADJ	STCK3	-62.93	-47.83	-31.29	-13.79	4.13	19.36
XBADJ	STCK4	-173.97	-187.23	-194.79	-196.44	-192.12	-182.80
XBADJ	STCK4	-171.80	-155.58	-134.63	-131.55	-124.47	-113.61
XBADJ	STCK4	-99.30	-81.97	-62.15	-40.45	-17.51	-11.94
XBADJ	STCK4	-21.02	-32.01	-42.04	-50.79	-57.99	-63.43
XBADJ	STCK4	-66.95	-68.43	-70.38	-96.64	-122.52	-144.68
XBADJ	STCK4	-162.44	-175.26	-182.76	-184.70	-181.04	-174.43
XBADJ	STCK5	-160.86	-158.24	-150.81	-138.80	-122.57	-103.46
XBADJ	STCK5	-85.07	-64.11	-41.19	-38.98	-35.59	-31.11
XBADJ	STCK5	-25.69	-19.49	-12.70	-5.52	1.83	-8.78
XBADJ	STCK5	-34.13	-61.00	-86.02	-108.43	-127.54	-142.77
XBADJ	STCK5	-153.67	-159.90	-163.82	-189.21	-211.41	-227.18
XBADJ	STCK5	-236.05	-237.74	-232.22	-219.63	-200.38	-177.59
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	-256.01	-282.10	-302.17	-313.05
XBADJ	STCK6	-314.43	-306.25	-288.76	-262.50	0.00	0.00

YBADJ	STCK1	47.39	58.18	67.20	74.18	78.90	81.23
YBADJ	STCK1	81.09	78.48	81.17	83.16	74.41	63.39
YBADJ	STCK1	50.46	35.98	20.00	1.47	-17.11	-33.89
YBADJ	STCK1	-47.39	-58.18	-67.20	-74.18	-78.90	-81.23
YBADJ	STCK1	-81.09	-78.48	-81.17	-83.16	-74.41	-63.39
YBADJ	STCK1	-50.46	-35.98	-20.00	-1.47	17.11	33.89
YBADJ	STCK2	-18.54	-4.81	9.07	22.67	35.59	47.42
YBADJ	STCK2	57.81	66.45	80.74	94.35	96.87	96.46
YBADJ	STCK2	93.11	86.93	77.69	64.16	48.67	32.98
YBADJ	STCK2	18.54	4.81	-9.07	-22.67	-35.59	-47.42
YBADJ	STCK2	-57.81	-66.45	-80.74	-94.35	-96.87	-96.46
YBADJ	STCK2	-93.11	-86.93	-77.69	-64.16	-48.67	-32.98
YBADJ	STCK3	18.89	36.52	53.04	67.94	80.78	91.17
YBADJ	STCK3	98.79	103.40	0.00	0.00	115.68	107.81
YBADJ	STCK3	96.65	82.56	65.54	44.59	22.29	0.58
YBADJ	STCK3	-18.89	-36.52	-53.04	-67.94	-80.78	-91.17
YBADJ	STCK3	-98.79	-103.40	0.00	0.00	-115.68	-107.81
YBADJ	STCK3	-96.65	-82.56	-65.54	-44.59	-22.29	-0.58
YBADJ	STCK4	17.45	0.98	-15.53	-31.57	-46.64	-60.30
YBADJ	STCK4	-72.13	-81.76	-81.24	-76.48	-77.61	-76.38
YBADJ	STCK4	-72.83	-67.06	-59.68	-52.43	-43.57	-32.12
YBADJ	STCK4	-17.45	-0.97	15.53	31.57	46.64	60.30
YBADJ	STCK4	72.13	81.76	81.24	76.48	77.61	76.38
YBADJ	STCK4	72.83	67.06	59.68	52.43	43.57	32.12
YBADJ	STCK5	-75.12	-87.91	-98.03	-105.18	-109.13	-109.76
YBADJ	STCK5	-107.06	-101.10	-84.40	-63.36	-48.62	-32.39
YBADJ	STCK5	-15.19	2.48	19.66	34.30	47.90	61.32
YBADJ	STCK5	75.12	87.91	98.03	105.18	109.13	109.76
YBADJ	STCK5	107.06	101.10	84.40	63.36	48.62	32.39
YBADJ	STCK5	15.19	-2.48	-19.66	-34.30	-47.90	-61.32
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	96.47	59.24	28.43	-3.25
YBADJ	STCK6	-34.83	-65.35	-93.46	-116.80	0.00	0.00

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

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RE STARTING  
INCLUDED "19370 Redlands Avenue West 2024-25.rou"  
RE FINISHED

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\*\*\*\*\*  
\*\* 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 "19370 REDLANDS AVENUE WEST 2024-25.AD\PE00GALL.PLT" 31  
SUMMFILE "19370 Redlands Avenue West 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           8 Warning Message(s)  
A Total of           0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320	946	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	947	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	948	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	949	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	950	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	951	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1189	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50

ME W187 1189 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
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\*\*\* MODELOPTs: RegDEFAULT 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 411 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: 411 Source(s); 1 Source Group(s); and 448 Receptor(s)

with: 6 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 405 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 = 4.3 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 19370 Redlands Avenue West 2024-25.err  
 \*\*File for Summary of Results: 19370 Redlands Avenue West 2024-25.sum

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
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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	0.11500E-04	479782.1	3742912.6	440.7	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.11500E-04	479715.2	3742913.0	441.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.11500E-04	479747.6	3742881.2	440.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.11500E-04	479780.3	3743075.0	441.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.11500E-04	479686.9	3743078.1	441.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.11500E-04	479594.7	3743090.2	441.4	3.66	366.00	51.90	0.10	YES	YES	NO	

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0007106	0	0.34320E-07	479885.1	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007107	0	0.34320E-07	479881.4	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007108	0	0.34320E-07	479877.7	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007109	0	0.34320E-07	479874.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007110	0	0.34320E-07	479870.4	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007111	0	0.34320E-07	479866.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007112	0	0.34320E-07	479863.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007113	0	0.34320E-07	479859.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007114	0	0.34320E-07	479855.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007115	0	0.34320E-07	479852.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007116	0	0.34320E-07	479848.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007117	0	0.34320E-07	479844.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007118	0	0.34320E-07	479841.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007119	0	0.34320E-07	479837.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007120	0	0.34320E-07	479833.9	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007121	0	0.34320E-07	479830.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007122	0	0.34320E-07	479826.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007123	0	0.34320E-07	479822.9	3742886.1	440.6	0.00	1.70	6.52	YES	
L0007124	0	0.34320E-07	479819.2	3742886.1	440.6	0.00	1.70	6.52	YES	
L0007125	0	0.34320E-07	479815.6	3742886.3	440.6	0.00	1.70	6.52	YES	
L0007126	0	0.34320E-07	479811.9	3742886.7	440.6	0.00	1.70	6.52	YES	
L0007127	0	0.34320E-07	479808.3	3742887.1	440.7	0.00	1.70	6.52	YES	
L0007128	0	0.34320E-07	479804.7	3742887.4	440.7	0.00	1.70	6.52	YES	
L0007129	0	0.34320E-07	479801.0	3742887.8	440.7	0.00	1.70	6.52	YES	
L0007130	0	0.34320E-07	479797.4	3742888.2	440.7	0.00	1.70	6.52	YES	
L0007131	0	0.34320E-07	479793.7	3742888.6	440.7	0.00	1.70	6.52	YES	
L0007132	0	0.34320E-07	479790.1	3742888.9	440.7	0.00	1.70	6.52	YES	
L0007133	0	0.34320E-07	479786.5	3742889.3	440.8	0.00	1.70	6.52	YES	
L0007134	0	0.34320E-07	479782.8	3742889.7	440.8	0.00	1.70	6.52	YES	
L0007135	0	0.34320E-07	479779.2	3742890.1	440.8	0.00	1.70	6.52	YES	
L0007136	0	0.34320E-07	479775.6	3742890.4	440.8	0.00	1.70	6.52	YES	
L0007137	0	0.34320E-07	479771.9	3742890.8	440.8	0.00	1.70	6.52	YES	
L0007138	0	0.34320E-07	479768.3	3742891.2	440.8	0.00	1.70	6.52	YES	
L0007139	0	0.34320E-07	479764.6	3742891.3	440.8	0.00	1.70	6.52	YES	
L0007140	0	0.34320E-07	479761.0	3742891.3	440.8	0.00	1.70	6.52	YES	
L0007141	0	0.34320E-07	479757.3	3742891.3	440.9	0.00	1.70	6.52	YES	
L0007142	0	0.34320E-07	479753.7	3742891.4	440.9	0.00	1.70	6.52	YES	

L0007143	0	0.34320E-07	479750.0	3742891.4	440.9	0.00	1.70	6.52	YES
L0007144	0	0.34320E-07	479746.3	3742891.5	440.9	0.00	1.70	6.52	YES
L0007145	0	0.34320E-07	479742.7	3742891.5	440.9	0.00	1.70	6.52	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0007146	0	0.34320E-07	479739.0	3742891.5	440.9	0.00	1.70	6.52	YES	
L0007147	0	0.34320E-07	479735.4	3742891.6	440.9	0.00	1.70	6.52	YES	
L0007148	0	0.34320E-07	479731.7	3742891.6	440.9	0.00	1.70	6.52	YES	
L0007149	0	0.34320E-07	479728.1	3742891.7	440.9	0.00	1.70	6.52	YES	
L0007150	0	0.34320E-07	479724.4	3742891.7	441.0	0.00	1.70	6.52	YES	
L0007151	0	0.34320E-07	479720.7	3742891.7	441.0	0.00	1.70	6.52	YES	
L0007152	0	0.34320E-07	479717.1	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007153	0	0.34320E-07	479713.4	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007154	0	0.34320E-07	479709.8	3742891.9	441.0	0.00	1.70	6.52	YES	
L0007155	0	0.34320E-07	479706.1	3742891.9	441.0	0.00	1.70	6.52	YES	
L0007156	0	0.34320E-07	479702.5	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007157	0	0.34320E-07	479698.8	3742891.6	441.0	0.00	1.70	6.52	YES	
L0007158	0	0.34320E-07	479695.1	3742891.5	441.0	0.00	1.70	6.52	YES	
L0007159	0	0.34320E-07	479691.5	3742891.3	441.1	0.00	1.70	6.52	YES	
L0007160	0	0.34320E-07	479687.8	3742891.2	441.1	0.00	1.70	6.52	YES	
L0007161	0	0.34320E-07	479684.2	3742891.0	441.1	0.00	1.70	6.52	YES	
L0007162	0	0.34320E-07	479680.5	3742890.9	441.1	0.00	1.70	6.52	YES	
L0007163	0	0.34320E-07	479677.0	3742891.6	441.1	0.00	1.70	6.52	YES	
L0007164	0	0.34320E-07	479673.7	3742893.1	441.1	0.00	1.70	6.52	YES	
L0007165	0	0.34320E-07	479670.4	3742894.7	441.1	0.00	1.70	6.52	YES	
L0007166	0	0.34320E-07	479667.1	3742896.2	441.1	0.00	1.70	6.52	YES	
L0007167	0	0.34320E-07	479664.7	3742898.8	441.2	0.00	1.70	6.52	YES	
L0007168	0	0.34320E-07	479662.8	3742901.9	441.2	0.00	1.70	6.52	YES	
L0007169	0	0.34320E-07	479661.0	3742905.1	441.2	0.00	1.70	6.52	YES	
L0007170	0	0.34320E-07	479659.1	3742908.2	441.2	0.00	1.70	6.52	YES	
L0007171	0	0.34320E-07	479657.2	3742911.4	441.2	0.00	1.70	6.52	YES	
L0007172	0	0.34320E-07	479655.3	3742914.5	441.2	0.00	1.70	6.52	YES	
L0007173	0	0.34320E-07	479653.4	3742917.6	441.2	0.00	1.70	6.52	YES	
L0007174	0	0.34320E-07	479651.5	3742920.8	441.2	0.00	1.70	6.52	YES	
L0007175	0	0.34320E-07	479649.7	3742923.9	441.2	0.00	1.70	6.52	YES	
L0007176	0	0.34320E-07	479647.8	3742927.0	441.2	0.00	1.70	6.52	YES	
L0007177	0	0.34320E-07	479645.9	3742930.2	441.2	0.00	1.70	6.52	YES	
L0007178	0	0.34320E-07	479644.0	3742933.3	441.2	0.00	1.70	6.52	YES	
L0007179	0	0.34320E-07	479642.1	3742936.4	441.2	0.00	1.70	6.52	YES	

L0007180	0	0.34320E-07	479640.2	3742939.6	441.2	0.00	1.70	6.52	YES
L0007181	0	0.34320E-07	479638.4	3742942.7	441.2	0.00	1.70	6.52	YES
L0007182	0	0.34320E-07	479636.5	3742945.8	441.2	0.00	1.70	6.52	YES
L0007183	0	0.34320E-07	479634.6	3742949.0	441.2	0.00	1.70	6.52	YES
L0007184	0	0.34320E-07	479633.0	3742952.3	441.2	0.00	1.70	6.52	YES
L0007185	0	0.34320E-07	479631.5	3742955.6	441.2	0.00	1.70	6.52	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
L0007186	0	0.34320E-07	479630.1	3742959.0	441.2	0.00	1.70	6.52	YES	
L0007187	0	0.34320E-07	479628.6	3742962.3	441.2	0.00	1.70	6.52	YES	
L0007188	0	0.34320E-07	479627.1	3742965.7	441.2	0.00	1.70	6.52	YES	
L0007189	0	0.34320E-07	479625.7	3742969.0	441.2	0.00	1.70	6.52	YES	
L0007190	0	0.34320E-07	479624.2	3742972.4	441.2	0.00	1.70	6.52	YES	
L0007191	0	0.34320E-07	479622.8	3742975.7	441.3	0.00	1.70	6.52	YES	
L0007192	0	0.34320E-07	479621.3	3742979.1	441.3	0.00	1.70	6.52	YES	
L0007193	0	0.34320E-07	479619.8	3742982.4	441.3	0.00	1.70	6.52	YES	
L0007194	0	0.34320E-07	479618.4	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007195	0	0.34320E-07	479622.0	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007196	0	0.34320E-07	479625.7	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007197	0	0.34320E-07	479629.3	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007198	0	0.34320E-07	479633.0	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007199	0	0.34320E-07	479636.7	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007200	0	0.34320E-07	479638.7	3742987.3	441.2	0.00	1.70	6.52	YES	
L0007201	0	0.34320E-07	479638.7	3742991.0	441.2	0.00	1.70	6.52	YES	
L0007202	0	0.34320E-07	479638.7	3742994.7	441.2	0.00	1.70	6.52	YES	
L0007203	0	0.34320E-07	479638.7	3742998.3	441.2	0.00	1.70	6.52	YES	
L0007204	0	0.34320E-07	479638.8	3743002.0	441.2	0.00	1.70	6.52	YES	
L0007205	0	0.34320E-07	479638.8	3743005.6	441.3	0.00	1.70	6.52	YES	
L0007206	0	0.34320E-07	479638.8	3743009.3	441.3	0.00	1.70	6.52	YES	
L0007207	0	0.34320E-07	479638.8	3743012.9	441.3	0.00	1.70	6.52	YES	
L0007208	0	0.34320E-07	479638.8	3743016.6	441.3	0.00	1.70	6.52	YES	
L0007209	0	0.34320E-07	479638.8	3743020.3	441.3	0.00	1.70	6.52	YES	
L0007210	0	0.34320E-07	479638.9	3743023.9	441.3	0.00	1.70	6.52	YES	
L0007211	0	0.34320E-07	479638.9	3743027.6	441.3	0.00	1.70	6.52	YES	
L0007212	0	0.34320E-07	479638.9	3743031.2	441.3	0.00	1.70	6.52	YES	
L0007213	0	0.34320E-07	479638.9	3743034.9	441.3	0.00	1.70	6.52	YES	
L0007214	0	0.34320E-07	479638.9	3743038.5	441.3	0.00	1.70	6.52	YES	
L0007215	0	0.34320E-07	479638.7	3743042.0	441.4	0.00	1.70	6.52	YES	
L0007216	0	0.34320E-07	479635.1	3743042.0	441.4	0.00	1.70	6.52	YES	



L0007217	0	0.34320E-07	479631.4	3743042.1	441.4	0.00	1.70	6.52	YES
L0007218	0	0.34320E-07	479627.8	3743042.1	441.4	0.00	1.70	6.52	YES
L0007219	0	0.34320E-07	479624.1	3743042.1	441.4	0.00	1.70	6.52	YES
L0007220	0	0.34320E-07	479620.5	3743042.1	441.4	0.00	1.70	6.52	YES
L0007221	0	0.34320E-07	479616.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0007222	0	0.34320E-07	479613.1	3743042.2	441.4	0.00	1.70	6.52	YES
L0007223	0	0.34320E-07	479609.5	3743042.2	441.4	0.00	1.70	6.52	YES
L0007224	0	0.34320E-07	479605.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0007225	0	0.34320E-07	479602.2	3743042.3	441.5	0.00	1.70	6.52	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
L0007226	0	0.34320E-07	479598.5	3743042.3	441.5	0.00	1.70	6.52	YES	
L0007227	0	0.34320E-07	479594.9	3743042.3	441.5	0.00	1.70	6.52	YES	
L0007228	0	0.34320E-07	479591.2	3743042.3	441.6	0.00	1.70	6.52	YES	
L0007229	0	0.34320E-07	479587.5	3743042.4	441.6	0.00	1.70	6.52	YES	
L0007230	0	0.34320E-07	479583.9	3743042.4	441.6	0.00	1.70	6.52	YES	
L0007356	0	0.34150E-07	479887.8	3743102.4	441.0	0.00	1.70	6.52	YES	
L0007357	0	0.34150E-07	479884.2	3743102.3	441.0	0.00	1.70	6.52	YES	
L0007358	0	0.34150E-07	479880.5	3743102.3	441.0	0.00	1.70	6.52	YES	
L0007359	0	0.34150E-07	479876.8	3743102.2	441.0	0.00	1.70	6.52	YES	
L0007360	0	0.34150E-07	479873.2	3743102.2	441.0	0.00	1.70	6.52	YES	
L0007361	0	0.34150E-07	479869.5	3743102.1	441.0	0.00	1.70	6.52	YES	
L0007362	0	0.34150E-07	479865.9	3743102.1	441.0	0.00	1.70	6.52	YES	
L0007363	0	0.34150E-07	479862.2	3743102.0	441.0	0.00	1.70	6.52	YES	
L0007364	0	0.34150E-07	479858.6	3743102.0	441.0	0.00	1.70	6.52	YES	
L0007365	0	0.34150E-07	479854.9	3743101.9	441.0	0.00	1.70	6.52	YES	
L0007366	0	0.34150E-07	479851.2	3743101.9	441.0	0.00	1.70	6.52	YES	
L0007367	0	0.34150E-07	479847.6	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007368	0	0.34150E-07	479843.9	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007369	0	0.34150E-07	479840.3	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007370	0	0.34150E-07	479836.6	3743101.7	441.0	0.00	1.70	6.52	YES	
L0007371	0	0.34150E-07	479833.0	3743101.7	441.0	0.00	1.70	6.52	YES	
L0007372	0	0.34150E-07	479829.3	3743101.6	441.0	0.00	1.70	6.52	YES	
L0007373	0	0.34150E-07	479825.6	3743101.6	441.0	0.00	1.70	6.52	YES	
L0007374	0	0.34150E-07	479822.0	3743101.5	441.0	0.00	1.70	6.52	YES	
L0007375	0	0.34150E-07	479818.3	3743101.5	441.0	0.00	1.70	6.52	YES	
L0007376	0	0.34150E-07	479814.7	3743101.1	441.1	0.00	1.70	6.52	YES	
L0007377	0	0.34150E-07	479811.1	3743100.3	441.1	0.00	1.70	6.52	YES	
L0007378	0	0.34150E-07	479807.5	3743099.6	441.1	0.00	1.70	6.52	YES	

L0007379	0	0.34150E-07	479804.0	3743098.9	441.1	0.00	1.70	6.52	YES
L0007380	0	0.34150E-07	479800.4	3743098.1	441.1	0.00	1.70	6.52	YES
L0007381	0	0.34150E-07	479796.8	3743097.4	441.1	0.00	1.70	6.52	YES
L0007382	0	0.34150E-07	479793.2	3743096.7	441.1	0.00	1.70	6.52	YES
L0007383	0	0.34150E-07	479789.6	3743095.9	441.1	0.00	1.70	6.52	YES
L0007384	0	0.34150E-07	479786.0	3743095.2	441.1	0.00	1.70	6.52	YES
L0007385	0	0.34150E-07	479782.5	3743094.5	441.1	0.00	1.70	6.52	YES
L0007386	0	0.34150E-07	479778.9	3743093.7	441.1	0.00	1.70	6.52	YES
L0007387	0	0.34150E-07	479775.2	3743093.8	441.1	0.00	1.70	6.52	YES
L0007388	0	0.34150E-07	479771.6	3743093.9	441.2	0.00	1.70	6.52	YES
L0007389	0	0.34150E-07	479767.9	3743093.9	441.2	0.00	1.70	6.52	YES
L0007390	0	0.34150E-07	479764.2	3743094.0	441.2	0.00	1.70	6.52	YES

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\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	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
L0007391	0	0.34150E-07	479760.6	3743094.0	441.2	0.00	1.70	6.52	YES	
L0007392	0	0.34150E-07	479756.9	3743094.1	441.2	0.00	1.70	6.52	YES	
L0007393	0	0.34150E-07	479753.3	3743094.2	441.2	0.00	1.70	6.52	YES	
L0007394	0	0.34150E-07	479749.6	3743094.2	441.2	0.00	1.70	6.52	YES	
L0007395	0	0.34150E-07	479746.0	3743094.3	441.2	0.00	1.70	6.52	YES	
L0007396	0	0.34150E-07	479742.3	3743094.4	441.2	0.00	1.70	6.52	YES	
L0007397	0	0.34150E-07	479738.6	3743094.4	441.2	0.00	1.70	6.52	YES	
L0007398	0	0.34150E-07	479735.0	3743094.5	441.2	0.00	1.70	6.52	YES	
L0007399	0	0.34150E-07	479731.3	3743094.5	441.2	0.00	1.70	6.52	YES	
L0007400	0	0.34150E-07	479727.7	3743094.6	441.2	0.00	1.70	6.52	YES	
L0007401	0	0.34150E-07	479724.0	3743094.7	441.2	0.00	1.70	6.52	YES	
L0007402	0	0.34150E-07	479720.4	3743094.7	441.2	0.00	1.70	6.52	YES	
L0007403	0	0.34150E-07	479716.7	3743094.8	441.2	0.00	1.70	6.52	YES	
L0007404	0	0.34150E-07	479713.0	3743094.9	441.2	0.00	1.70	6.52	YES	
L0007405	0	0.34150E-07	479709.4	3743094.9	441.2	0.00	1.70	6.52	YES	
L0007406	0	0.34150E-07	479705.7	3743095.0	441.2	0.00	1.70	6.52	YES	
L0007407	0	0.34150E-07	479702.1	3743095.1	441.2	0.00	1.70	6.52	YES	
L0007408	0	0.34150E-07	479698.4	3743095.1	441.2	0.00	1.70	6.52	YES	
L0007409	0	0.34150E-07	479694.8	3743095.2	441.2	0.00	1.70	6.52	YES	
L0007410	0	0.34150E-07	479691.1	3743095.2	441.2	0.00	1.70	6.52	YES	
L0007411	0	0.34150E-07	479687.4	3743095.3	441.2	0.00	1.70	6.52	YES	
L0007412	0	0.34150E-07	479683.8	3743095.4	441.2	0.00	1.70	6.52	YES	
L0007413	0	0.34150E-07	479680.1	3743095.4	441.2	0.00	1.70	6.52	YES	
L0007414	0	0.34150E-07	479676.5	3743095.5	441.2	0.00	1.70	6.52	YES	
L0007415	0	0.34150E-07	479672.8	3743095.6	441.2	0.00	1.70	6.52	YES	

L0007416	0	0.34150E-07	479669.2	3743095.6	441.2	0.00	1.70	6.52	YES
L0007417	0	0.34150E-07	479665.5	3743095.7	441.2	0.00	1.70	6.52	YES
L0007418	0	0.34150E-07	479661.8	3743095.7	441.2	0.00	1.70	6.52	YES
L0007419	0	0.34150E-07	479658.2	3743095.8	441.2	0.00	1.70	6.52	YES
L0007420	0	0.34150E-07	479654.5	3743095.9	441.2	0.00	1.70	6.52	YES
L0007421	0	0.34150E-07	479650.9	3743095.9	441.2	0.00	1.70	6.52	YES
L0007422	0	0.34150E-07	479647.2	3743096.0	441.2	0.00	1.70	6.52	YES
L0007423	0	0.34150E-07	479643.6	3743096.1	441.2	0.00	1.70	6.52	YES
L0007424	0	0.34150E-07	479639.9	3743096.1	441.2	0.00	1.70	6.52	YES
L0007425	0	0.34150E-07	479636.2	3743096.2	441.2	0.00	1.70	6.52	YES
L0007426	0	0.34150E-07	479632.6	3743096.3	441.2	0.00	1.70	6.52	YES
L0007427	0	0.34150E-07	479628.9	3743096.3	441.2	0.00	1.70	6.52	YES
L0007428	0	0.34150E-07	479625.3	3743096.4	441.2	0.00	1.70	6.52	YES
L0007429	0	0.34150E-07	479621.6	3743096.4	441.3	0.00	1.70	6.52	YES
L0007430	0	0.34150E-07	479618.0	3743096.5	441.3	0.00	1.70	6.52	YES

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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X Y		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0007431	0	0.34150E-07	479614.3	3743096.6	441.3	0.00	1.70	6.52	YES	
L0007432	0	0.34150E-07	479610.6	3743096.6	441.3	0.00	1.70	6.52	YES	
L0007433	0	0.34150E-07	479607.0	3743096.7	441.3	0.00	1.70	6.52	YES	
L0007434	0	0.34150E-07	479603.3	3743096.8	441.3	0.00	1.70	6.52	YES	
L0007435	0	0.34150E-07	479599.7	3743096.8	441.3	0.00	1.70	6.52	YES	
L0007436	0	0.34150E-07	479596.0	3743096.9	441.3	0.00	1.70	6.52	YES	
L0007437	0	0.34150E-07	479592.4	3743096.9	441.4	0.00	1.70	6.52	YES	
L0007438	0	0.34150E-07	479588.7	3743097.0	441.4	0.00	1.70	6.52	YES	
L0007439	0	0.34150E-07	479585.0	3743097.1	441.4	0.00	1.70	6.52	YES	
L0007440	0	0.34150E-07	479581.4	3743097.1	441.4	0.00	1.70	6.52	YES	
L0007441	0	0.34150E-07	479577.7	3743097.2	441.4	0.00	1.70	6.52	YES	
L0007442	0	0.34150E-07	479574.1	3743097.3	441.4	0.00	1.70	6.52	YES	
L0007443	0	0.34150E-07	479570.4	3743097.3	441.4	0.00	1.70	6.52	YES	
L0007444	0	0.34150E-07	479566.8	3743097.4	441.5	0.00	1.70	6.52	YES	
L0007445	0	0.34150E-07	479563.1	3743097.5	441.5	0.00	1.70	6.52	YES	
L0007446	0	0.34150E-07	479559.4	3743097.5	441.5	0.00	1.70	6.52	YES	
L0007447	0	0.34150E-07	479555.8	3743097.6	441.5	0.00	1.70	6.52	YES	
L0007448	0	0.34150E-07	479552.1	3743097.6	441.6	0.00	1.70	6.52	YES	
L0007449	0	0.34150E-07	479548.5	3743097.7	441.6	0.00	1.70	6.52	YES	
L0007636	0	0.20340E-07	479890.4	3742888.1	440.5	0.00	1.70	0.85	YES	
L0007637	0	0.20340E-07	479890.4	3742891.8	440.5	0.00	1.70	0.85	YES	
L0007638	0	0.20340E-07	479890.4	3742895.4	440.5	0.00	1.70	0.85	YES	

L0007639	0	0.20340E-07	479890.4	3742899.1	440.4	0.00	1.70	0.85	YES
L0007640	0	0.20340E-07	479890.4	3742902.7	440.4	0.00	1.70	0.85	YES
L0007641	0	0.20340E-07	479890.4	3742906.4	440.4	0.00	1.70	0.85	YES
L0007642	0	0.20340E-07	479890.4	3742910.0	440.4	0.00	1.70	0.85	YES
L0007643	0	0.20340E-07	479890.4	3742913.7	440.4	0.00	1.70	0.85	YES
L0007644	0	0.20340E-07	479890.4	3742917.4	440.4	0.00	1.70	0.85	YES
L0007645	0	0.20340E-07	479890.4	3742921.0	440.4	0.00	1.70	0.85	YES
L0007646	0	0.20340E-07	479890.4	3742924.7	440.4	0.00	1.70	0.85	YES
L0007647	0	0.20340E-07	479890.4	3742928.3	440.4	0.00	1.70	0.85	YES
L0007648	0	0.20340E-07	479890.4	3742932.0	440.4	0.00	1.70	0.85	YES
L0007649	0	0.20340E-07	479890.4	3742935.6	440.5	0.00	1.70	0.85	YES
L0007650	0	0.20340E-07	479890.4	3742939.3	440.5	0.00	1.70	0.85	YES
L0007651	0	0.20340E-07	479890.4	3742943.0	440.5	0.00	1.70	0.85	YES
L0007652	0	0.20340E-07	479890.4	3742946.6	440.5	0.00	1.70	0.85	YES
L0007653	0	0.20340E-07	479890.4	3742950.3	440.5	0.00	1.70	0.85	YES
L0007654	0	0.20340E-07	479890.5	3742953.9	440.5	0.00	1.70	0.85	YES
L0007655	0	0.20340E-07	479890.5	3742957.6	440.5	0.00	1.70	0.85	YES
L0007656	0	0.20340E-07	479890.5	3742961.2	440.5	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
L0007657	0	0.20340E-07	479890.5	3742964.9	440.5	0.00	1.70	0.85	YES	
L0007658	0	0.20340E-07	479890.5	3742968.6	440.5	0.00	1.70	0.85	YES	
L0007659	0	0.20340E-07	479890.5	3742972.2	440.5	0.00	1.70	0.85	YES	
L0007660	0	0.20340E-07	479890.5	3742975.9	440.5	0.00	1.70	0.85	YES	
L0007661	0	0.20340E-07	479890.5	3742979.5	440.5	0.00	1.70	0.85	YES	
L0007662	0	0.20340E-07	479890.5	3742983.2	440.5	0.00	1.70	0.85	YES	
L0007663	0	0.20340E-07	479890.5	3742986.9	440.5	0.00	1.70	0.85	YES	
L0007664	0	0.20340E-07	479890.5	3742990.5	440.5	0.00	1.70	0.85	YES	
L0007665	0	0.20340E-07	479890.5	3742994.2	440.5	0.00	1.70	0.85	YES	
L0007666	0	0.20340E-07	479890.5	3742997.8	440.6	0.00	1.70	0.85	YES	
L0007667	0	0.20340E-07	479890.5	3743001.5	440.6	0.00	1.70	0.85	YES	
L0007668	0	0.20340E-07	479890.5	3743005.1	440.6	0.00	1.70	0.85	YES	
L0007669	0	0.20340E-07	479890.5	3743008.8	440.6	0.00	1.70	0.85	YES	
L0007670	0	0.20340E-07	479890.5	3743012.5	440.6	0.00	1.70	0.85	YES	
L0007671	0	0.20340E-07	479890.5	3743016.1	440.6	0.00	1.70	0.85	YES	
L0007672	0	0.20340E-07	479890.5	3743019.8	440.6	0.00	1.70	0.85	YES	
L0007673	0	0.20340E-07	479890.5	3743023.4	440.6	0.00	1.70	0.85	YES	
L0007674	0	0.20340E-07	479890.5	3743027.1	440.7	0.00	1.70	0.85	YES	
L0007675	0	0.20340E-07	479890.5	3743030.7	440.7	0.00	1.70	0.85	YES	

L0007676	0	0.20340E-07	479890.5	3743034.4	440.7	0.00	1.70	0.85	YES
L0007677	0	0.20340E-07	479890.5	3743038.1	440.7	0.00	1.70	0.85	YES
L0007678	0	0.20340E-07	479890.5	3743041.7	440.7	0.00	1.70	0.85	YES
L0007679	0	0.20340E-07	479890.5	3743045.4	440.8	0.00	1.70	0.85	YES
L0007680	0	0.20340E-07	479890.5	3743049.0	440.8	0.00	1.70	0.85	YES
L0007681	0	0.20340E-07	479890.5	3743052.7	440.8	0.00	1.70	0.85	YES
L0007682	0	0.20340E-07	479890.6	3743056.3	440.8	0.00	1.70	0.85	YES
L0007683	0	0.20340E-07	479890.6	3743060.0	440.8	0.00	1.70	0.85	YES
L0007684	0	0.20340E-07	479890.6	3743063.7	440.9	0.00	1.70	0.85	YES
L0007685	0	0.20340E-07	479890.6	3743067.3	440.9	0.00	1.70	0.85	YES
L0007686	0	0.20340E-07	479890.6	3743071.0	440.9	0.00	1.70	0.85	YES
L0007687	0	0.20340E-07	479890.6	3743074.6	440.9	0.00	1.70	0.85	YES
L0007688	0	0.20340E-07	479890.6	3743078.3	440.9	0.00	1.70	0.85	YES
L0007689	0	0.20340E-07	479890.6	3743082.0	440.9	0.00	1.70	0.85	YES
L0007690	0	0.20340E-07	479890.6	3743085.6	440.9	0.00	1.70	0.85	YES
L0007691	0	0.20340E-07	479890.6	3743089.3	441.0	0.00	1.70	0.85	YES
L0007692	0	0.20340E-07	479890.6	3743092.9	441.0	0.00	1.70	0.85	YES
L0007693	0	0.20340E-07	479890.6	3743096.6	441.0	0.00	1.70	0.85	YES
L0007694	0	0.20340E-07	479890.6	3743100.2	441.0	0.00	1.70	0.85	YES
L0007695	0	0.40470E-07	479890.2	3743105.4	441.0	0.00	1.70	0.85	YES
L0007696	0	0.40470E-07	479890.3	3743109.1	441.0	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
L0007697	0	0.40470E-07	479890.4	3743112.7	441.0	0.00	1.70	0.85	YES	
L0007698	0	0.40470E-07	479890.5	3743116.4	441.0	0.00	1.70	0.85	YES	
L0007699	0	0.40470E-07	479890.6	3743120.0	441.0	0.00	1.70	0.85	YES	
L0007700	0	0.40470E-07	479890.7	3743123.7	441.0	0.00	1.70	0.85	YES	
L0007701	0	0.40470E-07	479890.8	3743127.3	441.0	0.00	1.70	0.85	YES	
L0007702	0	0.40470E-07	479890.9	3743131.0	441.0	0.00	1.70	0.85	YES	
L0007703	0	0.40470E-07	479890.9	3743134.7	441.0	0.00	1.70	0.85	YES	
L0007704	0	0.40470E-07	479891.0	3743138.3	441.0	0.00	1.70	0.85	YES	
L0007705	0	0.40470E-07	479891.1	3743142.0	441.0	0.00	1.70	0.85	YES	
L0007706	0	0.40470E-07	479891.2	3743145.6	440.9	0.00	1.70	0.85	YES	
L0007707	0	0.40470E-07	479891.3	3743149.3	440.9	0.00	1.70	0.85	YES	
L0007708	0	0.40470E-07	479891.4	3743152.9	440.9	0.00	1.70	0.85	YES	
L0007709	0	0.40470E-07	479891.5	3743156.6	440.9	0.00	1.70	0.85	YES	
L0007710	0	0.40470E-07	479891.6	3743160.2	440.9	0.00	1.70	0.85	YES	
L0007711	0	0.40470E-07	479891.7	3743163.9	440.9	0.00	1.70	0.85	YES	
L0007712	0	0.40470E-07	479891.8	3743167.6	440.9	0.00	1.70	0.85	YES	

L0007713	0	0.40470E-07	479891.9	3743171.2	440.9	0.00	1.70	0.85	YES
L0007714	0	0.40470E-07	479892.0	3743174.9	440.9	0.00	1.70	0.85	YES
L0007715	0	0.40470E-07	479892.1	3743178.5	440.9	0.00	1.70	0.85	YES
L0007716	0	0.40470E-07	479892.2	3743182.2	440.9	0.00	1.70	0.85	YES
L0007717	0	0.40470E-07	479892.3	3743185.8	440.9	0.00	1.70	0.85	YES
L0007718	0	0.40470E-07	479892.4	3743189.5	440.8	0.00	1.70	0.85	YES
L0007719	0	0.40470E-07	479892.5	3743193.2	440.8	0.00	1.70	0.85	YES
L0007720	0	0.40470E-07	479892.6	3743196.8	440.8	0.00	1.70	0.85	YES
L0007721	0	0.40470E-07	479892.6	3743200.5	440.8	0.00	1.70	0.85	YES
L0007722	0	0.40470E-07	479892.7	3743204.1	440.8	0.00	1.70	0.85	YES
L0007723	0	0.40470E-07	479892.8	3743207.8	440.8	0.00	1.70	0.85	YES
L0007724	0	0.40470E-07	479892.9	3743211.4	440.8	0.00	1.70	0.85	YES
L0007725	0	0.40470E-07	479893.0	3743215.1	440.8	0.00	1.70	0.85	YES
L0007726	0	0.40470E-07	479893.1	3743218.8	440.8	0.00	1.70	0.85	YES
L0007727	0	0.40470E-07	479893.2	3743222.4	440.8	0.00	1.70	0.85	YES
L0007728	0	0.40470E-07	479893.3	3743226.1	440.8	0.00	1.70	0.85	YES
L0007729	0	0.40470E-07	479893.4	3743229.7	440.8	0.00	1.70	0.85	YES
L0007730	0	0.40470E-07	479893.5	3743233.4	440.8	0.00	1.70	0.85	YES
L0007731	0	0.40470E-07	479893.6	3743237.0	440.8	0.00	1.70	0.85	YES
L0007732	0	0.40470E-07	479893.7	3743240.7	440.8	0.00	1.70	0.85	YES
L0007733	0	0.40470E-07	479893.8	3743244.3	440.7	0.00	1.70	0.85	YES
L0007734	0	0.40470E-07	479893.9	3743248.0	440.7	0.00	1.70	0.85	YES
L0007735	0	0.40470E-07	479894.0	3743251.7	440.7	0.00	1.70	0.85	YES
L0007736	0	0.40470E-07	479894.1	3743255.3	440.7	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
L0007737	0	0.40470E-07	479894.2	3743259.0	440.7	0.00	1.70	0.85	YES	
L0007738	0	0.40470E-07	479894.3	3743262.6	440.7	0.00	1.70	0.85	YES	
L0007739	0	0.40470E-07	479894.3	3743266.3	440.7	0.00	1.70	0.85	YES	
L0007740	0	0.40470E-07	479894.4	3743269.9	440.7	0.00	1.70	0.85	YES	
L0007741	0	0.40470E-07	479894.5	3743273.6	440.7	0.00	1.70	0.85	YES	
L0007742	0	0.40470E-07	479894.6	3743277.3	440.6	0.00	1.70	0.85	YES	
L0007743	0	0.40470E-07	479894.7	3743280.9	440.6	0.00	1.70	0.85	YES	
L0007744	0	0.40470E-07	479894.8	3743284.6	440.6	0.00	1.70	0.85	YES	
L0007745	0	0.40470E-07	479894.9	3743288.2	440.6	0.00	1.70	0.85	YES	
L0007746	0	0.40470E-07	479895.0	3743291.9	440.6	0.00	1.70	0.85	YES	
L0007747	0	0.40470E-07	479895.1	3743295.5	440.6	0.00	1.70	0.85	YES	
L0007748	0	0.40470E-07	479895.2	3743299.2	440.6	0.00	1.70	0.85	YES	
L0007749	0	0.40470E-07	479895.3	3743302.8	440.6	0.00	1.70	0.85	YES	

L0007750	0	0.40470E-07	479895.4	3743306.5	440.6	0.00	1.70	0.85	YES
L0007751	0	0.40470E-07	479895.5	3743310.2	440.5	0.00	1.70	0.85	YES
L0007752	0	0.40470E-07	479895.6	3743313.8	440.5	0.00	1.70	0.85	YES
L0007753	0	0.40470E-07	479895.7	3743317.5	440.5	0.00	1.70	0.85	YES
L0007754	0	0.40470E-07	479895.8	3743321.1	440.5	0.00	1.70	0.85	YES
L0007755	0	0.40470E-07	479895.9	3743324.8	440.5	0.00	1.70	0.85	YES
L0007756	0	0.40470E-07	479896.0	3743328.4	440.5	0.00	1.70	0.85	YES
L0007757	0	0.40470E-07	479896.0	3743332.1	440.4	0.00	1.70	0.85	YES
L0007758	0	0.40470E-07	479896.1	3743335.8	440.4	0.00	1.70	0.85	YES
L0007759	0	0.40470E-07	479897.1	3743339.3	440.4	0.00	1.70	0.85	YES
L0007760	0	0.40470E-07	479898.1	3743342.8	440.4	0.00	1.70	0.85	YES
L0007761	0	0.40470E-07	479899.1	3743346.3	440.4	0.00	1.70	0.85	YES
L0007762	0	0.40470E-07	479900.1	3743349.8	440.4	0.00	1.70	0.85	YES
L0007763	0	0.40470E-07	479901.1	3743353.3	440.3	0.00	1.70	0.85	YES
L0007764	0	0.40470E-07	479902.1	3743356.9	440.3	0.00	1.70	0.85	YES
L0007765	0	0.40470E-07	479903.1	3743360.4	440.3	0.00	1.70	0.85	YES
L0007766	0	0.40470E-07	479904.1	3743363.9	440.2	0.00	1.70	0.85	YES
L0007767	0	0.40470E-07	479904.1	3743367.6	440.2	0.00	1.70	0.85	YES
L0007768	0	0.40470E-07	479904.2	3743371.2	440.2	0.00	1.70	0.85	YES
L0007769	0	0.40470E-07	479904.3	3743374.9	440.2	0.00	1.70	0.85	YES
L0007770	0	0.40470E-07	479904.3	3743378.5	440.1	0.00	1.70	0.85	YES
L0007771	0	0.40470E-07	479904.4	3743382.2	440.1	0.00	1.70	0.85	YES
L0007772	0	0.40470E-07	479904.5	3743385.9	440.1	0.00	1.70	0.85	YES
L0007773	0	0.40470E-07	479904.5	3743389.5	440.0	0.00	1.70	0.85	YES
L0007774	0	0.40470E-07	479904.6	3743393.2	440.0	0.00	1.70	0.85	YES
L0007775	0	0.40470E-07	479904.6	3743396.8	440.0	0.00	1.70	0.85	YES
L0007776	0	0.40470E-07	479904.7	3743400.5	439.9	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X Y		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0007777	0	0.40470E-07	479904.8	3743404.1	439.9	0.00	1.70	0.85	YES	
L0007778	0	0.40470E-07	479904.8	3743407.8	439.9	0.00	1.70	0.85	YES	
L0007779	0	0.40470E-07	479904.9	3743411.5	439.9	0.00	1.70	0.85	YES	
L0007780	0	0.40470E-07	479904.9	3743415.1	439.9	0.00	1.70	0.85	YES	
L0007781	0	0.40470E-07	479905.0	3743418.8	439.9	0.00	1.70	0.85	YES	
L0007782	0	0.40470E-07	479905.1	3743422.4	439.9	0.00	1.70	0.85	YES	
L0007783	0	0.40470E-07	479905.1	3743426.1	439.9	0.00	1.70	0.85	YES	
L0007784	0	0.40470E-07	479905.2	3743429.7	439.8	0.00	1.70	0.85	YES	
L0007785	0	0.40470E-07	479905.2	3743433.4	439.8	0.00	1.70	0.85	YES	
L0007786	0	0.40470E-07	479905.3	3743437.1	439.8	0.00	1.70	0.85	YES	

L0007787	0	0.40470E-07	479905.4	3743440.7	439.9	0.00	1.70	0.85	YES
L0007788	0	0.40470E-07	479905.4	3743444.4	439.9	0.00	1.70	0.85	YES
L0007789	0	0.40470E-07	479905.5	3743448.0	439.9	0.00	1.70	0.85	YES
L0007790	0	0.40470E-07	479905.6	3743451.7	439.9	0.00	1.70	0.85	YES
L0007791	0	0.40470E-07	479905.6	3743455.3	439.9	0.00	1.70	0.85	YES
L0007792	0	0.40470E-07	479905.7	3743459.0	439.9	0.00	1.70	0.85	YES
L0007793	0	0.40470E-07	479905.7	3743462.7	439.9	0.00	1.70	0.85	YES
L0007794	0	0.40470E-07	479905.8	3743466.3	440.0	0.00	1.70	0.85	YES
L0007795	0	0.40470E-07	479905.9	3743470.0	439.9	0.00	1.70	0.85	YES
L0007796	0	0.40470E-07	479905.9	3743473.6	439.9	0.00	1.70	0.85	YES
L0007797	0	0.40470E-07	479906.0	3743477.3	439.9	0.00	1.70	0.85	YES
L0007798	0	0.40470E-07	479906.0	3743480.9	439.9	0.00	1.70	0.85	YES
L0007799	0	0.40470E-07	479906.1	3743484.6	439.9	0.00	1.70	0.85	YES
L0007800	0	0.40470E-07	479906.2	3743488.2	439.9	0.00	1.70	0.85	YES
L0007801	0	0.40470E-07	479906.2	3743491.9	439.9	0.00	1.70	0.85	YES
L0007802	0	0.40470E-07	479906.3	3743495.6	439.9	0.00	1.70	0.85	YES
L0007803	0	0.40470E-07	479906.4	3743499.2	439.9	0.00	1.70	0.85	YES
L0007804	0	0.40470E-07	479906.4	3743502.9	439.8	0.00	1.70	0.85	YES
L0007805	0	0.40470E-07	479906.5	3743506.5	439.8	0.00	1.70	0.85	YES
L0007806	0	0.40470E-07	479906.5	3743510.2	439.8	0.00	1.70	0.85	YES
L0007807	0	0.40470E-07	479906.6	3743513.8	439.8	0.00	1.70	0.85	YES
L0007808	0	0.40470E-07	479906.7	3743517.5	439.8	0.00	1.70	0.85	YES
L0007809	0	0.40470E-07	479906.7	3743521.2	439.8	0.00	1.70	0.85	YES
L0007810	0	0.40470E-07	479906.8	3743524.8	439.8	0.00	1.70	0.85	YES
L0007811	0	0.40470E-07	479906.8	3743528.5	439.8	0.00	1.70	0.85	YES
L0007812	0	0.40470E-07	479906.9	3743532.1	439.8	0.00	1.70	0.85	YES
L0007813	0	0.40470E-07	479907.0	3743535.8	439.8	0.00	1.70	0.85	YES
L0007814	0	0.40470E-07	479907.0	3743539.4	439.8	0.00	1.70	0.85	YES
L0007815	0	0.40470E-07	479907.1	3743543.1	439.8	0.00	1.70	0.85	YES
L0007816	0	0.40470E-07	479907.2	3743546.8	439.8	0.00	1.70	0.85	YES

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\*      08:07:49  
 \*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*      PAGE 13

\*\*\* 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
L0007817	0	0.40470E-07	479907.2	3743550.4	439.8	0.00	1.70	0.85	YES		
L0007818	0	0.40470E-07	479907.3	3743554.1	439.7	0.00	1.70	0.85	YES		
L0007819	0	0.40470E-07	479907.3	3743557.7	439.7	0.00	1.70	0.85	YES		
L0007820	0	0.40470E-07	479907.4	3743561.4	439.7	0.00	1.70	0.85	YES		
L0007821	0	0.40470E-07	479907.7	3743565.0	439.7	0.00	1.70	0.85	YES		

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\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs								
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ALL	L0007106	, L0007107	, L0007108	, L0007109	, L0007110	, L0007111	, L0007112	, L0007113	,
	L0007114	, L0007115	, L0007116	, L0007117	, L0007118	, L0007119	, L0007120	, L0007121	,
	L0007122	, L0007123	, L0007124	, L0007125	, L0007126	, L0007127	, L0007128	, L0007129	,
	L0007130	, L0007131	, L0007132	, L0007133	, L0007134	, L0007135	, L0007136	, L0007137	,
	L0007138	, L0007139	, L0007140	, L0007141	, L0007142	, L0007143	, L0007144	, L0007145	,
	L0007146	, L0007147	, L0007148	, L0007149	, L0007150	, L0007151	, L0007152	, L0007153	,
	L0007154	, L0007155	, L0007156	, L0007157	, L0007158	, L0007159	, L0007160	, L0007161	,
	L0007162	, L0007163	, L0007164	, L0007165	, L0007166	, L0007167	, L0007168	, L0007169	,
	L0007170	, L0007171	, L0007172	, L0007173	, L0007174	, L0007175	, L0007176	, L0007177	,
	L0007178	, L0007179	, L0007180	, L0007181	, L0007182	, L0007183	, L0007184	, L0007185	,
	L0007186	, L0007187	, L0007188	, L0007189	, L0007190	, L0007191	, L0007192	, L0007193	,
	L0007194	, L0007195	, L0007196	, L0007197	, L0007198	, L0007199	, L0007200	, L0007201	,
	L0007202	, L0007203	, L0007204	, L0007205	, L0007206	, L0007207	, L0007208	, L0007209	,
	L0007210	, L0007211	, L0007212	, L0007213	, L0007214	, L0007215	, L0007216	, L0007217	,
	L0007218	, L0007219	, L0007220	, L0007221	, L0007222	, L0007223	, L0007224	, L0007225	,
	L0007226	, L0007227	, L0007228	, L0007229	, L0007230	, L0007356	, L0007357	, L0007358	,
	L0007359	, L0007360	, L0007361	, L0007362	, L0007363	, L0007364	, L0007365	, L0007366	,
	L0007367	, L0007368	, L0007369	, L0007370	, L0007371	, L0007372	, L0007373	, L0007374	,
	L0007375	, L0007376	, L0007377	, L0007378	, L0007379	, L0007380	, L0007381	, L0007382	,
	L0007383	, L0007384	, L0007385	, L0007386	, L0007387	, L0007388	, L0007389	, L0007390	,

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\*\*\* MODELOPTs:    RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs														
-----	-----														
L0007391	,	L0007392	,	L0007393	,	L0007394	,	L0007395	,	L0007396	,	L0007397	,	L0007398	,
L0007399	,	L0007400	,	L0007401	,	L0007402	,	L0007403	,	L0007404	,	L0007405	,	L0007406	,
L0007407	,	L0007408	,	L0007409	,	L0007410	,	L0007411	,	L0007412	,	L0007413	,	L0007414	,
L0007415	,	L0007416	,	L0007417	,	L0007418	,	L0007419	,	L0007420	,	L0007421	,	L0007422	,
L0007423	,	L0007424	,	L0007425	,	L0007426	,	L0007427	,	L0007428	,	L0007429	,	L0007430	,
L0007431	,	L0007432	,	L0007433	,	L0007434	,	L0007435	,	L0007436	,	L0007437	,	L0007438	,
L0007439	,	L0007440	,	L0007441	,	L0007442	,	L0007443	,	L0007444	,	L0007445	,	L0007446	,
L0007447	,	L0007448	,	L0007449	,	L0007636	,	L0007637	,	L0007638	,	L0007639	,	L0007640	,
L0007641	,	L0007642	,	L0007643	,	L0007644	,	L0007645	,	L0007646	,	L0007647	,	L0007648	,
L0007649	,	L0007650	,	L0007651	,	L0007652	,	L0007653	,	L0007654	,	L0007655	,	L0007656	,
L0007657	,	L0007658	,	L0007659	,	L0007660	,	L0007661	,	L0007662	,	L0007663	,	L0007664	,
L0007665	,	L0007666	,	L0007667	,	L0007668	,	L0007669	,	L0007670	,	L0007671	,	L0007672	,
L0007673	,	L0007674	,	L0007675	,	L0007676	,	L0007677	,	L0007678	,	L0007679	,	L0007680	,
L0007681	,	L0007682	,	L0007683	,	L0007684	,	L0007685	,	L0007686	,	L0007687	,	L0007688	,
L0007689	,	L0007690	,	L0007691	,	L0007692	,	L0007693	,	L0007694	,	L0007695	,	L0007696	,
L0007697	,	L0007698	,	L0007699	,	L0007700	,	L0007701	,	L0007702	,	L0007703	,	L0007704	,
L0007705	,	L0007706	,	L0007707	,	L0007708	,	L0007709	,	L0007710	,	L0007711	,	L0007712	,
L0007713	,	L0007714	,	L0007715	,	L0007716	,	L0007717	,	L0007718	,	L0007719	,	L0007720	,
L0007721	,	L0007722	,	L0007723	,	L0007724	,	L0007725	,	L0007726	,	L0007727	,	L0007728	,
L0007729	,	L0007730	,	L0007731	,	L0007732	,	L0007733	,	L0007734	,	L0007735	,	L0007736	,

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*** AERMOD - VERSION 21112 ***   *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***   08/17/21
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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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L0007737	, L0007738	, L0007739	, L0007740	, L0007741	, L0007742	, L0007743	, L0007744	,
L0007745	, L0007746	, L0007747	, L0007748	, L0007749	, L0007750	, L0007751	, L0007752	,
L0007753	, L0007754	, L0007755	, L0007756	, L0007757	, L0007758	, L0007759	, L0007760	,
L0007761	, L0007762	, L0007763	, L0007764	, L0007765	, L0007766	, L0007767	, L0007768	,
L0007769	, L0007770	, L0007771	, L0007772	, L0007773	, L0007774	, L0007775	, L0007776	,
L0007777	, L0007778	, L0007779	, L0007780	, L0007781	, L0007782	, L0007783	, L0007784	,
L0007785	, L0007786	, L0007787	, L0007788	, L0007789	, L0007790	, L0007791	, L0007792	,
L0007793	, L0007794	, L0007795	, L0007796	, L0007797	, L0007798	, L0007799	, L0007800	,
L0007801	, L0007802	, L0007803	, L0007804	, L0007805	, L0007806	, L0007807	, L0007808	,
L0007809	, L0007810	, L0007811	, L0007812	, L0007813	, L0007814	, L0007815	, L0007816	,
L0007817	, L0007818	, L0007819	, L0007820	, L0007821	, STCK1	, STCK2	, STCK3	,
STCK4	, STCK5	, STCK6	,					

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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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L0007113	2189641.	L0007106	, L0007107	, L0007108	, L0007109	, L0007110	, L0007111	, L0007112	,

L0007114 , L0007115 , L0007116 , L0007117 , L0007118 , L0007119 , L0007120 , L0007121 ,  
 L0007122 , L0007123 , L0007124 , L0007125 , L0007126 , L0007127 , L0007128 , L0007129 ,  
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 L0007162 , L0007163 , L0007164 , L0007165 , L0007166 , L0007167 , L0007168 , L0007169 ,  
 L0007170 , L0007171 , L0007172 , L0007173 , L0007174 , L0007175 , L0007176 , L0007177 ,  
 L0007178 , L0007179 , L0007180 , L0007181 , L0007182 , L0007183 , L0007184 , L0007185 ,  
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 L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 ,  
 L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 ,  
 L0007218 , L0007219 , L0007220 , L0007221 , L0007222 , L0007223 , L0007224 , L0007225 ,  
 L0007226 , L0007227 , L0007228 , L0007229 , L0007230 , L0007356 , L0007357 , L0007358 ,  
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 L0007375 , L0007376 , L0007377 , L0007378 , L0007379 , L0007380 , L0007381 , L0007382 ,  
 L0007383 , L0007384 , L0007385 , L0007386 , L0007387 , L0007388 , L0007389 , L0007390 ,

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID      URBAN POP      SOURCE IDs  
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L0007391 , L0007392 , L0007393 , L0007394 , L0007395 , L0007396 , L0007397 , L0007398 ,  
 L0007399 , L0007400 , L0007401 , L0007402 , L0007403 , L0007404 , L0007405 , L0007406 ,  
 L0007407 , L0007408 , L0007409 , L0007410 , L0007411 , L0007412 , L0007413 , L0007414 ,  
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 L0007665 , L0007666 , L0007667 , L0007668 , L0007669 , L0007670 , L0007671 , L0007672 ,  
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 L0007713 , L0007714 , L0007715 , L0007716 , L0007717 , L0007718 , L0007719 , L0007720 ,  
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 L0007729 , L0007730 , L0007731 , L0007732 , L0007733 , L0007734 , L0007735 , L0007736 ,

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*    08/17/21  
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 \*\*\* MODELOPTs:    RegDEFAULT CONC ELEV URBAN ADJ\_U\*    PAGE 19

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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L0007737 , L0007738 , L0007739 , L0007740 , L0007741 , L0007742 , L0007743 , L0007744 ,  
 L0007745 , L0007746 , L0007747 , L0007748 , L0007749 , L0007750 , L0007751 , L0007752 ,  
 L0007753 , L0007754 , L0007755 , L0007756 , L0007757 , L0007758 , L0007759 , L0007760 ,  
 L0007761 , L0007762 , L0007763 , L0007764 , L0007765 , L0007766 , L0007767 , L0007768 ,  
 L0007769 , L0007770 , L0007771 , L0007772 , L0007773 , L0007774 , L0007775 , L0007776 ,  
 L0007777 , L0007778 , L0007779 , L0007780 , L0007781 , L0007782 , L0007783 , L0007784 ,  
 L0007785 , L0007786 , L0007787 , L0007788 , L0007789 , L0007790 , L0007791 , L0007792 ,  
 L0007793 , L0007794 , L0007795 , L0007796 , L0007797 , L0007798 , L0007799 , L0007800 ,  
 L0007801 , L0007802 , L0007803 , L0007804 , L0007805 , L0007806 , L0007807 , L0007808 ,  
 L0007809 , L0007810 , L0007811 , L0007812 , L0007813 , L0007814 , L0007815 , L0007816 ,  
 L0007817 , L0007818 , L0007819 , L0007820 , L0007821 , STCK1 , STCK2 , STCK3 ,  
 STCK4 , STCK5 , STCK6 ,

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      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,	228.2,	195.0,	-14.3,	47.4,	2	14.0,	247.0,	219.2,	-35.2,	58.2,
3	14.0,	258.3,	236.8,	-55.0,	67.2,	4	14.0,	261.7,	247.2,	-73.2,	74.2,
5	14.0,	257.2,	250.1,	-89.1,	78.9,	6	14.0,	244.9,	246.2,	-103.1,	81.2,
7	14.0,	225.2,	238.8,	-117.9,	81.1,	8	14.0,	198.6,	224.0,	-129.1,	78.5,
9	14.0,	186.4,	205.0,	-136.4,	81.2,	10	14.0,	195.0,	228.2,	-161.5,	83.2,
11	14.0,	219.2,	247.0,	-181.7,	74.4,	12	14.0,	236.8,	258.3,	-196.3,	63.4,
13	14.0,	247.2,	261.7,	-205.0,	50.5,	14	14.0,	250.1,	257.2,	-207.5,	36.0,
15	14.0,	246.2,	244.9,	-203.7,	20.0,	16	14.0,	238.8,	225.2,	-193.7,	1.5,
17	14.0,	224.0,	198.6,	-177.8,	-17.1,	18	14.0,	205.0,	186.4,	-174.4,	-33.9,
19	14.0,	228.2,	195.0,	-180.7,	-47.4,	20	14.0,	247.0,	219.2,	-184.0,	-58.2,
21	14.0,	258.3,	236.8,	-181.8,	-67.2,	22	14.0,	261.7,	247.2,	-174.1,	-74.2,
23	14.0,	257.2,	250.1,	-161.0,	-78.9,	24	14.0,	244.9,	246.2,	-143.1,	-81.2,
25	14.0,	225.2,	238.8,	-120.8,	-81.1,	26	14.0,	198.6,	224.0,	-94.9,	-78.5,
27	14.0,	186.4,	205.0,	-68.6,	-81.2,	28	14.0,	195.0,	228.2,	-66.7,	-83.2,
29	14.0,	219.2,	247.0,	-65.3,	-74.4,	30	14.0,	236.8,	258.3,	-61.9,	-63.4,
31	14.0,	247.2,	261.7,	-56.7,	-50.5,	32	14.0,	250.1,	257.2,	-49.7,	-36.0,

33	14.0,	246.2,	244.9,	-41.2,	-20.0,	34	14.0,	238.8,	225.2,	-31.5,	-1.5,
35	14.0,	224.0,	198.6,	-20.8,	17.1,	36	14.0,	205.0,	186.4,	-12.0,	33.9,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-3.1,	-18.5,	2	14.0,	247.0,	219.2,	-12.8,	-4.8,
3	14.0,	258.3,	236.8,	-22.0,	9.1,	4	14.0,	261.7,	247.2,	-30.5,	22.7,
5	14.0,	257.2,	250.1,	-38.1,	35.6,	6	14.0,	244.9,	246.2,	-45.4,	47.4,
7	14.0,	225.2,	238.8,	-55.2,	57.8,	8	14.0,	198.6,	224.0,	-63.3,	66.5,
9	14.0,	186.4,	205.0,	-69.5,	80.7,	10	14.0,	195.0,	228.2,	-95.6,	94.3,
11	14.0,	219.2,	247.0,	-118.7,	96.9,	12	14.0,	236.8,	258.3,	-138.2,	96.5,
13	14.0,	247.2,	261.7,	-153.5,	93.1,	14	14.0,	250.1,	257.2,	-164.2,	86.9,
15	14.0,	246.2,	244.9,	-169.9,	77.7,	16	14.0,	238.8,	225.2,	-170.4,	64.2,
17	14.0,	224.0,	198.6,	-165.7,	48.7,	18	14.0,	205.0,	186.4,	-173.9,	33.0,
19	14.0,	228.2,	195.0,	-191.8,	18.5,	20	14.0,	247.0,	219.2,	-206.5,	4.8,
21	14.0,	258.3,	236.8,	-214.9,	-9.1,	22	14.0,	261.7,	247.2,	-216.7,	-22.7,
23	14.0,	257.2,	250.1,	-212.0,	-35.6,	24	14.0,	244.9,	246.2,	-200.8,	-47.4,
25	14.0,	225.2,	238.8,	-183.5,	-57.8,	26	14.0,	198.6,	224.0,	-160.7,	-66.5,
27	14.0,	186.4,	205.0,	-135.5,	-80.7,	28	14.0,	195.0,	228.2,	-132.6,	-94.3,
29	14.0,	219.2,	247.0,	-128.3,	-96.9,	30	14.0,	236.8,	258.3,	-120.1,	-96.5,
31	14.0,	247.2,	261.7,	-108.2,	-93.1,	32	14.0,	250.1,	257.2,	-93.0,	-86.9,
33	14.0,	246.2,	244.9,	-75.0,	-77.7,	34	14.0,	238.8,	225.2,	-54.8,	-64.2,
35	14.0,	224.0,	198.6,	-32.8,	-48.7,	36	14.0,	205.0,	186.4,	-12.5,	-33.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	22.6,	18.9,	2	14.0,	247.0,	219.2,	6.1,	36.5,
3	14.0,	258.3,	236.8,	-10.6,	53.0,	4	14.0,	261.7,	247.2,	-27.0,	67.9,
5	14.0,	257.2,	250.1,	-42.5,	80.8,	6	14.0,	244.9,	246.2,	-57.6,	91.2,
7	14.0,	225.2,	238.8,	-74.8,	98.8,	8	14.0,	198.6,	224.0,	-89.7,	103.4,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	14.0,	219.2,	247.0,	-160.0,	115.7,	12	14.0,	236.8,	258.3,	-182.2,	107.8,
13	14.0,	247.2,	261.7,	-198.8,	96.6,	14	14.0,	250.1,	257.2,	-209.4,	82.6,
15	14.0,	246.2,	244.9,	-213.6,	65.5,	16	14.0,	238.8,	225.2,	-211.4,	44.6,
17	14.0,	224.0,	198.6,	-202.7,	22.3,	18	14.0,	205.0,	186.4,	-205.7,	0.6,
19	14.0,	228.2,	195.0,	-217.5,	-18.9,	20	14.0,	247.0,	219.2,	-225.3,	-36.5,
21	14.0,	258.3,	236.8,	-226.2,	-53.0,	22	14.0,	261.7,	247.2,	-220.3,	-67.9,
23	14.0,	257.2,	250.1,	-207.6,	-80.8,	24	14.0,	244.9,	246.2,	-188.7,	-91.2,
25	14.0,	225.2,	238.8,	-164.0,	-98.8,	26	14.0,	198.6,	224.0,	-134.3,	-103.4,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	14.0,	219.2,	247.0,	-87.0,	-115.7,	30	14.0,	236.8,	258.3,	-76.1,	-107.8,
31	14.0,	247.2,	261.7,	-62.9,	-96.6,	32	14.0,	250.1,	257.2,	-47.8,	-82.6,
33	14.0,	246.2,	244.9,	-31.3,	-65.5,	34	14.0,	238.8,	225.2,	-13.8,	-44.6,
35	14.0,	224.0,	198.6,	4.1,	-22.3,	36	14.0,	205.0,	186.4,	19.4,	-0.6,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-174.0,	17.4,	2	14.0,	247.0,	219.2,	-187.2,	1.0,

3	14.0,	258.3,	236.8,	-194.8,	-15.5,	4	14.0,	261.7,	247.2,	-196.4,	-31.6,
5	14.0,	257.2,	250.1,	-192.1,	-46.6,	6	14.0,	244.9,	246.2,	-182.8,	-60.3,
7	14.0,	225.2,	238.8,	-171.8,	-72.1,	8	14.0,	198.6,	224.0,	-155.6,	-81.8,
9	14.0,	186.4,	205.0,	-134.6,	-81.2,	10	14.0,	195.0,	228.2,	-131.6,	-76.5,
11	14.0,	219.2,	247.0,	-124.5,	-77.6,	12	14.0,	236.8,	258.3,	-113.6,	-76.4,
13	14.0,	247.2,	261.7,	-99.3,	-72.8,	14	14.0,	250.1,	257.2,	-82.0,	-67.1,
15	14.0,	246.2,	244.9,	-62.1,	-59.7,	16	14.0,	238.8,	225.2,	-40.4,	-52.4,
17	14.0,	224.0,	198.6,	-17.5,	-43.6,	18	14.0,	205.0,	186.4,	-11.9,	-32.1,
19	14.0,	228.2,	195.0,	-21.0,	-17.4,	20	14.0,	247.0,	219.2,	-32.0,	-1.0,
21	14.0,	258.3,	236.8,	-42.0,	15.5,	22	14.0,	261.7,	247.2,	-50.8,	31.6,
23	14.0,	257.2,	250.1,	-58.0,	46.6,	24	14.0,	244.9,	246.2,	-63.4,	60.3,
25	14.0,	225.2,	238.8,	-67.0,	72.1,	26	14.0,	198.6,	224.0,	-68.4,	81.8,
27	14.0,	186.4,	205.0,	-70.4,	81.2,	28	14.0,	195.0,	228.2,	-96.6,	76.5,
29	14.0,	219.2,	247.0,	-122.5,	77.6,	30	14.0,	236.8,	258.3,	-144.7,	76.4,
31	14.0,	247.2,	261.7,	-162.4,	72.8,	32	14.0,	250.1,	257.2,	-175.3,	67.1,
33	14.0,	246.2,	244.9,	-182.8,	59.7,	34	14.0,	238.8,	225.2,	-184.7,	52.4,
35	14.0,	224.0,	198.6,	-181.0,	43.6,	36	14.0,	205.0,	186.4,	-174.4,	32.1,

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-160.9,	-75.1,	2	14.0,	247.0,	219.2,	-158.2,	-87.9,
3	14.0,	258.3,	236.8,	-150.8,	-98.0,	4	14.0,	261.7,	247.2,	-138.8,	-105.2,
5	14.0,	257.2,	250.1,	-122.6,	-109.1,	6	14.0,	244.9,	246.2,	-103.5,	-109.8,
7	14.0,	225.2,	238.8,	-85.1,	-107.1,	8	14.0,	198.6,	224.0,	-64.1,	-101.1,
9	14.0,	186.4,	205.0,	-41.2,	-84.4,	10	14.0,	195.0,	228.2,	-39.0,	-63.4,
11	14.0,	219.2,	247.0,	-35.6,	-48.6,	12	14.0,	236.8,	258.3,	-31.1,	-32.4,
13	14.0,	247.2,	261.7,	-25.7,	-15.2,	14	14.0,	250.1,	257.2,	-19.5,	2.5,
15	14.0,	246.2,	244.9,	-12.7,	19.7,	16	14.0,	238.8,	225.2,	-5.5,	34.3,
17	14.0,	224.0,	198.6,	1.8,	47.9,	18	14.0,	205.0,	186.4,	-8.8,	61.3,
19	14.0,	228.2,	195.0,	-34.1,	75.1,	20	14.0,	247.0,	219.2,	-61.0,	87.9,
21	14.0,	258.3,	236.8,	-86.0,	98.0,	22	14.0,	261.7,	247.2,	-108.4,	105.2,
23	14.0,	257.2,	250.1,	-127.5,	109.1,	24	14.0,	244.9,	246.2,	-142.8,	109.8,
25	14.0,	225.2,	238.8,	-153.7,	107.1,	26	14.0,	198.6,	224.0,	-159.9,	101.1,
27	14.0,	186.4,	205.0,	-163.8,	84.4,	28	14.0,	195.0,	228.2,	-189.2,	63.4,
29	14.0,	219.2,	247.0,	-211.4,	48.6,	30	14.0,	236.8,	258.3,	-227.2,	32.4,
31	14.0,	247.2,	261.7,	-236.1,	15.2,	32	14.0,	250.1,	257.2,	-237.7,	-2.5,
33	14.0,	246.2,	244.9,	-232.2,	-19.7,	34	14.0,	238.8,	225.2,	-219.6,	-34.3,
35	14.0,	224.0,	198.6,	-200.4,	-47.9,	36	14.0,	205.0,	186.4,	-177.6,	-61.3,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
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1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	0.0,	0.0,	0.0,	0.0,	0.0,	12	0.0,	0.0,	0.0,	0.0,	0.0,
13	0.0,	0.0,	0.0,	0.0,	0.0,	14	0.0,	0.0,	0.0,	0.0,	0.0,
15	0.0,	0.0,	0.0,	0.0,	0.0,	16	0.0,	0.0,	0.0,	0.0,	0.0,
17	0.0,	0.0,	0.0,	0.0,	0.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	14.0,	186.4,	205.0,	-256.0,	96.5,	28	14.0,	195.0,	228.2,	-282.1,	59.2,
29	14.0,	219.2,	247.0,	-302.2,	28.4,	30	14.0,	236.8,	258.3,	-313.1,	-3.2,
31	14.0,	247.2,	261.7,	-314.4,	-34.8,	32	14.0,	250.1,	257.2,	-306.2,	-65.3,
33	14.0,	246.2,	244.9,	-288.8,	-93.5,	34	14.0,	238.8,	225.2,	-262.5,	-116.8,
35	0.0,	0.0,	0.0,	0.0,	0.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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*** X-COORDINATES OF GRID ***
(METERS)

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479016.1, 479088.4, 479160.7, 479233.0, 479305.3, 479377.6, 479449.9, 479522.2, 479594.5, 479666.8,
479739.1, 479811.4, 479883.7, 479956.0, 480028.3, 480100.6, 480172.9, 480245.2, 480317.5, 480389.8,
480462.1,

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*** Y-COORDINATES OF GRID ***
(METERS)

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3742296.2, 3742363.9, 3742431.5, 3742499.2, 3742566.8, 3742634.5, 3742702.1, 3742769.8, 3742837.5, 3742905.1,
3742972.8, 3743040.4, 3743108.1, 3743175.8, 3743243.4, 3743311.1, 3743378.8, 3743446.4, 3743514.1, 3743581.7,
3743649.4,

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2024-2025 ***      08:07:49
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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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* ELEVATION HEIGHTS IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)								
	479016.09	479088.39	479160.69	479232.99	479305.29	479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	440.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
\*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\*      08:07:49  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* NETWORK ID: UCART1    ;    NETWORK TYPE: GRIDCART \*\*\*

\* ELEVATION HEIGHTS IN METERS \*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40
3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30

3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2024-2025 ***      08:07:49
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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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* ELEVATION HEIGHTS IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)		
	480317.49	480389.79	480462.09
3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2024-2025 ***      08:07:49
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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)	479016.09	479088.39	479160.69	479232.99	479305.29	479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	440.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
\*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\*      08:07:49  
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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)	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40

3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30
3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

\*\*\* AERMOT - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\*      08:07:49  
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\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* NETWORK ID: UCART1    ;    NETWORK TYPE: GRIDCART \*\*\*

\* HILL HEIGHT SCALES IN METERS \*

Y-COORD (METERS)	X-COORD (METERS)		
	480317.49	480389.79	480462.09
3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

\*\*\* AERMOT - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\*      08:07:49



(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.SFC Met Version: 16216  
Profile file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.PFL  
Surface format: FREE  
Profile format: FREE  
Surface station no.: 3171 Upper air station no.: 3190  
Name: UNKNOWN Name: UNKNOWN  
Year: 2010 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 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 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): L0007106 , L0007107 , L0007108 , L0007109 , L0007110 ,
L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 ,
L0007119 , L0007120 , L0007121 , L0007122 , L0007123 , L0007124 , L0007125 , L0007126 ,
L0007127 , L0007128 , L0007129 , L0007130 , L0007131 , L0007132 , L0007133 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Table with 10 columns: Y-COORD (METERS), X-COORD (METERS), and 8 columns of concentration data. Rows range from Y=3743649.39 to Y=3742296.19.

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21
\*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\* 08:07:49
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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): L0007106 , L0007107 , L0007108 , L0007109 , L0007110 ,  
 L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 ,  
 L0007119 , L0007120 , L0007121 , L0007122 , L0007123 , L0007124 , L0007125 , L0007126 ,  
 L0007127 , L0007128 , L0007129 , L0007130 , L0007131 , L0007132 , L0007133 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	0.00055	0.00054	0.00054	0.00054	0.00049	0.00042	0.00035	0.00030	0.00025
3743581.73	0.00068	0.00067	0.00069	0.00087	0.00069	0.00051	0.00041	0.00033	0.00028
3743514.07	0.00083	0.00082	0.00086	0.00155	0.00096	0.00060	0.00047	0.00037	0.00030
3743446.41	0.00100	0.00100	0.00103	0.00180	0.00111	0.00069	0.00052	0.00041	0.00033
3743378.75	0.00124	0.00123	0.00123	0.00204	0.00121	0.00076	0.00056	0.00044	0.00035
3743311.09	0.00154	0.00154	0.00148	0.00295	0.00126	0.00082	0.00060	0.00046	0.00037
3743243.43	0.00197	0.00204	0.00180	0.00345	0.00131	0.00085	0.00062	0.00048	0.00038
3743175.77	0.00271	0.00320	0.00250	0.00408	0.00135	0.00087	0.00063	0.00049	0.00039
3743108.11	0.00397	0.00385	0.00378	0.00531	0.00135	0.00086	0.00064	0.00050	0.00040
3743040.45	0.00323	0.00328	0.00264	0.00320	0.00139	0.00086	0.00064	0.00050	0.00040
3742972.79	0.00290	0.00328	0.00249	0.00307	0.00139	0.00085	0.00063	0.00050	0.00040
3742905.13	0.00392	0.00375	0.00301	0.00367	0.00134	0.00086	0.00063	0.00049	0.00039
3742837.47	0.00219	0.00330	0.00335	0.00212	0.00128	0.00087	0.00063	0.00049	0.00039
3742769.81	0.00132	0.00187	0.00223	0.00181	0.00126	0.00089	0.00065	0.00050	0.00039
3742702.15	0.00096	0.00124	0.00156	0.00152	0.00120	0.00089	0.00066	0.00050	0.00039
3742634.49	0.00075	0.00092	0.00114	0.00122	0.00107	0.00085	0.00065	0.00050	0.00039
3742566.83	0.00060	0.00072	0.00085	0.00096	0.00092	0.00078	0.00062	0.00049	0.00039
3742499.17	0.00050	0.00059	0.00069	0.00077	0.00077	0.00069	0.00058	0.00047	0.00037
3742431.51	0.00042	0.00048	0.00055	0.00062	0.00063	0.00059	0.00052	0.00043	0.00035
3742363.85	0.00036	0.00040	0.00045	0.00050	0.00052	0.00050	0.00045	0.00039	0.00033
3742296.19	0.00031	0.00034	0.00037	0.00041	0.00043	0.00042	0.00039	0.00035	0.00030

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\*      08:07:49  
 \*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN      ADJ\_U\*      PAGE 35

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0007106 , L0007107 , L0007108 , L0007109 , L0007110 ,  
 L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 ,  
 L0007119 , L0007120 , L0007121 , L0007122 , L0007123 , L0007124 , L0007125 , L0007126 ,  
 L0007127 , L0007128 , L0007129 , L0007130 , L0007131 , L0007132 , L0007133 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD | X-COORD (METERS)

(METERS) | 480317.49 480389.79 480462.09

3743649.39	0.00021	0.00018	0.00015
3743581.73	0.00023	0.00019	0.00016
3743514.07	0.00025	0.00021	0.00017
3743446.41	0.00027	0.00022	0.00019
3743378.75	0.00028	0.00023	0.00020
3743311.09	0.00030	0.00024	0.00020
3743243.43	0.00031	0.00025	0.00021
3743175.77	0.00032	0.00026	0.00022
3743108.11	0.00032	0.00026	0.00022
3743040.45	0.00032	0.00027	0.00022
3742972.79	0.00032	0.00027	0.00022
3742905.13	0.00032	0.00026	0.00022
3742837.47	0.00032	0.00026	0.00022
3742769.81	0.00031	0.00026	0.00021
3742702.15	0.00032	0.00026	0.00021
3742634.49	0.00031	0.00025	0.00021
3742566.83	0.00031	0.00025	0.00021
3742499.17	0.00030	0.00024	0.00020
3742431.51	0.00029	0.00024	0.00020
3742363.85	0.00027	0.00022	0.00019
3742296.19	0.00025	0.00021	0.00018

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\* 08:07:49  
 PAGE 36

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0007106 , L0007107 , L0007108 , L0007109 , L0007110 ,  
 L0007111 , L0007112 , L0007113 , L0007114 , L0007115 , L0007116 , L0007117 , L0007118 ,  
 L0007119 , L0007120 , L0007121 , L0007122 , L0007123 , L0007124 , L0007125 , L0007126 ,  
 L0007127 , L0007128 , L0007129 , L0007130 , L0007131 , L0007132 , L0007133 , . . .

\*\*\* 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	
479517.63	3743087.52	0.00163	479625.84	3742903.49	0.00250	
479747.94	3742702.04	0.00129	479941.63	3742746.07	0.00133	
480129.11	3743129.41	0.00058	480038.90	3743313.86	0.00078	
479770.81	3743365.76	0.00126				

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2024-2025 \*\*\* 08:07:49  
 PAGE 37

\*\*\* 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	0.00531 AT ( 479883.69, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00408 AT ( 479883.69, 3743175.77, 440.90, 440.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00397 AT ( 479666.79, 3743108.11, 440.90, 440.90, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00392 AT ( 479666.79, 3742905.13, 441.10, 441.10, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00385 AT ( 479739.09, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00378 AT ( 479811.39, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00375 AT ( 479739.09, 3742905.13, 440.90, 440.90, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00367 AT ( 479883.69, 3742905.13, 440.50, 440.50, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00363 AT ( 479594.49, 3743040.45, 441.50, 441.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00345 AT ( 479883.69, 3743243.43, 440.80, 440.80, 0.00)	GC	UCART1

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\* 19370 DPM Concentrations - 2024-2025 \*\*\*

08/17/21  
 08:07:49  
 PAGE 38

\*\*\* 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 10 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 946 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 947 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 948 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 949 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 950 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 951 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 1189 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 1189 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

```

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*****
*** AERMOD Finishes Successfully ***
*****

```

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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/16/2021
** File: C:\Lakes\19370 Redlands Avenue West 2026-39\19370 Redlands Avenue West 2026-39.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria
TITLETWO 19370 DPM Concentrations - 2026-2039
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19370 Redlands Avenue West 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 Onsite from southern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 3.59E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 11
** 479886.890, 3742886.073, 440.50, 0.00, 1.70
** 479818.066, 3742886.064, 440.61, 0.00, 1.70

```

\*\* 479767.787, 3742891.223, 440.85, 0.00, 1.70  
 \*\* 479705.988, 3742891.905, 441.01, 0.00, 1.70  
 \*\* 479678.715, 3742890.836, 441.09, 0.00, 1.70  
 \*\* 479665.980, 3742896.710, 441.18, 0.00, 1.70  
 \*\* 479633.961, 3742950.034, 441.20, 0.00, 1.70  
 \*\* 479618.374, 3742985.797, 441.39, 0.00, 1.70  
 \*\* 479638.678, 3742985.699, 441.24, 0.00, 1.70  
 \*\* 479638.938, 3743042.012, 441.34, 0.00, 1.70  
 \*\* 479581.598, 3743042.415, 441.62, 0.00, 1.70

\*\* -----  
 LOCATION L0007636      VOLUME    479885.061 3742886.073 440.49  
 LOCATION L0007637      VOLUME    479881.404 3742886.072 440.48  
 LOCATION L0007638      VOLUME    479877.746 3742886.072 440.46  
 LOCATION L0007639      VOLUME    479874.088 3742886.071 440.45  
 LOCATION L0007640      VOLUME    479870.431 3742886.071 440.43  
 LOCATION L0007641      VOLUME    479866.773 3742886.070 440.42  
 LOCATION L0007642      VOLUME    479863.116 3742886.070 440.40  
 LOCATION L0007643      VOLUME    479859.458 3742886.069 440.40  
 LOCATION L0007644      VOLUME    479855.800 3742886.069 440.41  
 LOCATION L0007645      VOLUME    479852.143 3742886.068 440.42  
 LOCATION L0007646      VOLUME    479848.485 3742886.068 440.43  
 LOCATION L0007647      VOLUME    479844.828 3742886.068 440.45  
 LOCATION L0007648      VOLUME    479841.170 3742886.067 440.46  
 LOCATION L0007649      VOLUME    479837.512 3742886.067 440.47  
 LOCATION L0007650      VOLUME    479833.855 3742886.066 440.49  
 LOCATION L0007651      VOLUME    479830.197 3742886.066 440.51  
 LOCATION L0007652      VOLUME    479826.540 3742886.065 440.54  
 LOCATION L0007653      VOLUME    479822.882 3742886.065 440.56  
 LOCATION L0007654      VOLUME    479819.224 3742886.064 440.58  
 LOCATION L0007655      VOLUME    479815.580 3742886.319 440.61  
 LOCATION L0007656      VOLUME    479811.941 3742886.692 440.63  
 LOCATION L0007657      VOLUME    479808.303 3742887.066 440.65  
 LOCATION L0007658      VOLUME    479804.664 3742887.439 440.67  
 LOCATION L0007659      VOLUME    479801.026 3742887.812 440.68  
 LOCATION L0007660      VOLUME    479797.387 3742888.186 440.70  
 LOCATION L0007661      VOLUME    479793.749 3742888.559 440.72  
 LOCATION L0007662      VOLUME    479790.110 3742888.932 440.73  
 LOCATION L0007663      VOLUME    479786.472 3742889.306 440.75  
 LOCATION L0007664      VOLUME    479782.833 3742889.679 440.76  
 LOCATION L0007665      VOLUME    479779.195 3742890.052 440.78  
 LOCATION L0007666      VOLUME    479775.556 3742890.426 440.79  
 LOCATION L0007667      VOLUME    479771.918 3742890.799 440.80  
 LOCATION L0007668      VOLUME    479768.279 3742891.172 440.81  
 LOCATION L0007669      VOLUME    479764.624 3742891.258 440.82  
 LOCATION L0007670      VOLUME    479760.967 3742891.298 440.84  
 LOCATION L0007671      VOLUME    479757.310 3742891.339 440.85  
 LOCATION L0007672      VOLUME    479753.652 3742891.379 440.86  
 LOCATION L0007673      VOLUME    479749.995 3742891.419 440.87  
 LOCATION L0007674      VOLUME    479746.338 3742891.460 440.89  
 LOCATION L0007675      VOLUME    479742.680 3742891.500 440.90  
 LOCATION L0007676      VOLUME    479739.023 3742891.540 440.91

LOCATION	L0007677	VOLUME	479735.365	3742891.581	440.92
LOCATION	L0007678	VOLUME	479731.708	3742891.621	440.94
LOCATION	L0007679	VOLUME	479728.051	3742891.662	440.95
LOCATION	L0007680	VOLUME	479724.393	3742891.702	440.96
LOCATION	L0007681	VOLUME	479720.736	3742891.742	440.97
LOCATION	L0007682	VOLUME	479717.079	3742891.783	440.98
LOCATION	L0007683	VOLUME	479713.421	3742891.823	440.99
LOCATION	L0007684	VOLUME	479709.764	3742891.864	441.00
LOCATION	L0007685	VOLUME	479706.106	3742891.904	441.01
LOCATION	L0007686	VOLUME	479702.452	3742891.767	441.02
LOCATION	L0007687	VOLUME	479698.797	3742891.623	441.03
LOCATION	L0007688	VOLUME	479695.142	3742891.480	441.04
LOCATION	L0007689	VOLUME	479691.487	3742891.337	441.06
LOCATION	L0007690	VOLUME	479687.832	3742891.194	441.07
LOCATION	L0007691	VOLUME	479684.178	3742891.050	441.08
LOCATION	L0007692	VOLUME	479680.523	3742890.907	441.09
LOCATION	L0007693	VOLUME	479677.037	3742891.611	441.11
LOCATION	L0007694	VOLUME	479673.715	3742893.142	441.12
LOCATION	L0007695	VOLUME	479670.394	3742894.674	441.13
LOCATION	L0007696	VOLUME	479667.072	3742896.206	441.14
LOCATION	L0007697	VOLUME	479664.716	3742898.814	441.15
LOCATION	L0007698	VOLUME	479662.833	3742901.950	441.16
LOCATION	L0007699	VOLUME	479660.951	3742905.086	441.16
LOCATION	L0007700	VOLUME	479659.068	3742908.221	441.17
LOCATION	L0007701	VOLUME	479657.185	3742911.357	441.17
LOCATION	L0007702	VOLUME	479655.302	3742914.493	441.17
LOCATION	L0007703	VOLUME	479653.419	3742917.629	441.17
LOCATION	L0007704	VOLUME	479651.536	3742920.764	441.17
LOCATION	L0007705	VOLUME	479649.653	3742923.900	441.18
LOCATION	L0007706	VOLUME	479647.770	3742927.036	441.18
LOCATION	L0007707	VOLUME	479645.887	3742930.171	441.18
LOCATION	L0007708	VOLUME	479644.004	3742933.307	441.17
LOCATION	L0007709	VOLUME	479642.122	3742936.443	441.17
LOCATION	L0007710	VOLUME	479640.239	3742939.579	441.17
LOCATION	L0007711	VOLUME	479638.356	3742942.714	441.17
LOCATION	L0007712	VOLUME	479636.473	3742945.850	441.17
LOCATION	L0007713	VOLUME	479634.590	3742948.986	441.18
LOCATION	L0007714	VOLUME	479632.988	3742952.266	441.19
LOCATION	L0007715	VOLUME	479631.526	3742955.619	441.20
LOCATION	L0007716	VOLUME	479630.065	3742958.972	441.20
LOCATION	L0007717	VOLUME	479628.604	3742962.325	441.21
LOCATION	L0007718	VOLUME	479627.142	3742965.678	441.23
LOCATION	L0007719	VOLUME	479625.681	3742969.031	441.24
LOCATION	L0007720	VOLUME	479624.220	3742972.384	441.25
LOCATION	L0007721	VOLUME	479622.758	3742975.737	441.26
LOCATION	L0007722	VOLUME	479621.297	3742979.090	441.28
LOCATION	L0007723	VOLUME	479619.836	3742982.443	441.29
LOCATION	L0007724	VOLUME	479618.374	3742985.796	441.30
LOCATION	L0007725	VOLUME	479622.030	3742985.779	441.28
LOCATION	L0007726	VOLUME	479625.688	3742985.762	441.26
LOCATION	L0007727	VOLUME	479629.345	3742985.744	441.24

LOCATION	VOLUME				
L0007728	479633.003	3742985.726	441.22		
L0007729	479636.660	3742985.708	441.21		
L0007730	479638.686	3742987.339	441.20		
L0007731	479638.703	3742990.996	441.21		
L0007732	479638.720	3742994.654	441.22		
L0007733	479638.736	3742998.311	441.23		
L0007734	479638.753	3743001.969	441.24		
L0007735	479638.770	3743005.626	441.26		
L0007736	479638.787	3743009.284	441.26		
L0007737	479638.804	3743012.941	441.27		
L0007738	479638.821	3743016.599	441.28		
L0007739	479638.838	3743020.257	441.29		
L0007740	479638.855	3743023.914	441.30		
L0007741	479638.872	3743027.572	441.31		
L0007742	479638.889	3743031.229	441.32		
L0007743	479638.906	3743034.887	441.33		
L0007744	479638.922	3743038.544	441.34		
L0007745	479638.749	3743042.013	441.36		
L0007746	479635.091	3743042.039	441.36		
L0007747	479631.434	3743042.065	441.37		
L0007748	479627.776	3743042.091	441.38		
L0007749	479624.119	3743042.116	441.39		
L0007750	479620.461	3743042.142	441.40		
L0007751	479616.804	3743042.168	441.42		
L0007752	479613.146	3743042.193	441.43		
L0007753	479609.489	3743042.219	441.44		
L0007754	479605.831	3743042.245	441.45		
L0007755	479602.174	3743042.270	441.47		
L0007756	479598.516	3743042.296	441.50		
L0007757	479594.859	3743042.322	441.52		
L0007758	479591.201	3743042.347	441.55		
L0007759	479587.543	3743042.373	441.58		
L0007760	479583.886	3743042.399	441.60		

```

** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite from northern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 2.69E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 4
** 479889.642, 3743102.412, 441.04, 0.00, 1.70
** 479816.557, 3743101.433, 441.04, 0.00, 1.70
** 479778.789, 3743093.729, 441.12, 0.00, 1.70
** 479547.668, 3743097.718, 441.55, 0.00, 1.70
** -----

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LOCATION	L0007761	VOLUME	479887.813	3743102.387	441.03
LOCATION	L0007762	VOLUME	479884.156	3743102.338	441.04
LOCATION	L0007763	VOLUME	479880.498	3743102.289	441.03
LOCATION	L0007764	VOLUME	479876.841	3743102.240	441.02
LOCATION	L0007765	VOLUME	479873.184	3743102.191	441.01
LOCATION	L0007766	VOLUME	479869.527	3743102.142	441.00
LOCATION	L0007767	VOLUME	479865.869	3743102.094	441.00
LOCATION	L0007768	VOLUME	479862.212	3743102.045	440.99
LOCATION	L0007769	VOLUME	479858.555	3743101.996	440.99
LOCATION	L0007770	VOLUME	479854.897	3743101.947	440.99
LOCATION	L0007771	VOLUME	479851.240	3743101.898	441.00
LOCATION	L0007772	VOLUME	479847.583	3743101.849	441.00
LOCATION	L0007773	VOLUME	479843.926	3743101.800	441.01
LOCATION	L0007774	VOLUME	479840.268	3743101.751	441.02
LOCATION	L0007775	VOLUME	479836.611	3743101.702	441.02
LOCATION	L0007776	VOLUME	479832.954	3743101.653	441.03
LOCATION	L0007777	VOLUME	479829.297	3743101.604	441.03
LOCATION	L0007778	VOLUME	479825.639	3743101.555	441.03
LOCATION	L0007779	VOLUME	479821.982	3743101.506	441.04
LOCATION	L0007780	VOLUME	479818.325	3743101.457	441.04
LOCATION	L0007781	VOLUME	479814.705	3743101.056	441.05
LOCATION	L0007782	VOLUME	479811.122	3743100.324	441.05
LOCATION	L0007783	VOLUME	479807.538	3743099.593	441.06
LOCATION	L0007784	VOLUME	479803.954	3743098.862	441.07
LOCATION	L0007785	VOLUME	479800.370	3743098.131	441.08
LOCATION	L0007786	VOLUME	479796.786	3743097.400	441.09
LOCATION	L0007787	VOLUME	479793.203	3743096.669	441.10
LOCATION	L0007788	VOLUME	479789.619	3743095.938	441.10
LOCATION	L0007789	VOLUME	479786.035	3743095.207	441.11
LOCATION	L0007790	VOLUME	479782.451	3743094.476	441.12
LOCATION	L0007791	VOLUME	479778.867	3743093.745	441.13
LOCATION	L0007792	VOLUME	479775.212	3743093.791	441.14
LOCATION	L0007793	VOLUME	479771.555	3743093.854	441.15
LOCATION	L0007794	VOLUME	479767.898	3743093.917	441.16
LOCATION	L0007795	VOLUME	479764.241	3743093.980	441.17
LOCATION	L0007796	VOLUME	479760.584	3743094.043	441.18
LOCATION	L0007797	VOLUME	479756.927	3743094.106	441.19
LOCATION	L0007798	VOLUME	479753.270	3743094.169	441.18
LOCATION	L0007799	VOLUME	479749.613	3743094.233	441.18
LOCATION	L0007800	VOLUME	479745.956	3743094.296	441.17
LOCATION	L0007801	VOLUME	479742.298	3743094.359	441.16
LOCATION	L0007802	VOLUME	479738.641	3743094.422	441.16
LOCATION	L0007803	VOLUME	479734.984	3743094.485	441.15
LOCATION	L0007804	VOLUME	479731.327	3743094.548	441.15
LOCATION	L0007805	VOLUME	479727.670	3743094.611	441.15
LOCATION	L0007806	VOLUME	479724.013	3743094.674	441.15
LOCATION	L0007807	VOLUME	479720.356	3743094.738	441.15
LOCATION	L0007808	VOLUME	479716.699	3743094.801	441.15
LOCATION	L0007809	VOLUME	479713.042	3743094.864	441.15
LOCATION	L0007810	VOLUME	479709.385	3743094.927	441.15
LOCATION	L0007811	VOLUME	479705.728	3743094.990	441.16

LOCATION	VOLUME			
LOCATION L0007812	VOLUME	479702.071	3743095.053	441.16
LOCATION L0007813	VOLUME	479698.414	3743095.116	441.17
LOCATION L0007814	VOLUME	479694.757	3743095.179	441.18
LOCATION L0007815	VOLUME	479691.100	3743095.242	441.19
LOCATION L0007816	VOLUME	479687.443	3743095.306	441.20
LOCATION L0007817	VOLUME	479683.786	3743095.369	441.20
LOCATION L0007818	VOLUME	479680.129	3743095.432	441.21
LOCATION L0007819	VOLUME	479676.471	3743095.495	441.21
LOCATION L0007820	VOLUME	479672.814	3743095.558	441.22
LOCATION L0007821	VOLUME	479669.157	3743095.621	441.22
LOCATION L0007822	VOLUME	479665.500	3743095.684	441.23
LOCATION L0007823	VOLUME	479661.843	3743095.747	441.23
LOCATION L0007824	VOLUME	479658.186	3743095.810	441.23
LOCATION L0007825	VOLUME	479654.529	3743095.874	441.24
LOCATION L0007826	VOLUME	479650.872	3743095.937	441.24
LOCATION L0007827	VOLUME	479647.215	3743096.000	441.24
LOCATION L0007828	VOLUME	479643.558	3743096.063	441.24
LOCATION L0007829	VOLUME	479639.901	3743096.126	441.24
LOCATION L0007830	VOLUME	479636.244	3743096.189	441.24
LOCATION L0007831	VOLUME	479632.587	3743096.252	441.24
LOCATION L0007832	VOLUME	479628.930	3743096.315	441.24
LOCATION L0007833	VOLUME	479625.273	3743096.379	441.25
LOCATION L0007834	VOLUME	479621.616	3743096.442	441.26
LOCATION L0007835	VOLUME	479617.959	3743096.505	441.27
LOCATION L0007836	VOLUME	479614.302	3743096.568	441.28
LOCATION L0007837	VOLUME	479610.644	3743096.631	441.29
LOCATION L0007838	VOLUME	479606.987	3743096.694	441.30
LOCATION L0007839	VOLUME	479603.330	3743096.757	441.31
LOCATION L0007840	VOLUME	479599.673	3743096.820	441.33
LOCATION L0007841	VOLUME	479596.016	3743096.883	441.34
LOCATION L0007842	VOLUME	479592.359	3743096.947	441.35
LOCATION L0007843	VOLUME	479588.702	3743097.010	441.36
LOCATION L0007844	VOLUME	479585.045	3743097.073	441.38
LOCATION L0007845	VOLUME	479581.388	3743097.136	441.39
LOCATION L0007846	VOLUME	479577.731	3743097.199	441.40
LOCATION L0007847	VOLUME	479574.074	3743097.262	441.42
LOCATION L0007848	VOLUME	479570.417	3743097.325	441.44
LOCATION L0007849	VOLUME	479566.760	3743097.388	441.47
LOCATION L0007850	VOLUME	479563.103	3743097.451	441.49
LOCATION L0007851	VOLUME	479559.446	3743097.515	441.51
LOCATION L0007852	VOLUME	479555.789	3743097.578	441.53
LOCATION L0007853	VOLUME	479552.132	3743097.641	441.55
LOCATION L0007854	VOLUME	479548.475	3743097.704	441.55

\*\* End of LINE VOLUME Source ID = SLINE2

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

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

\*\* PREFIX

\*\* Length of Side = 3.66

\*\* Configuration = Adjacent

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** Emission Rate = 1.11E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 479890.384, 3742886.270, 440.49, 0.00, 1.70
** 479890.599, 3743102.594, 441.04, 0.00, 1.70
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LOCATION L0008100    VOLUME  479890.386 3742888.098 440.47
LOCATION L0008101    VOLUME  479890.390 3742891.756 440.46
LOCATION L0008102    VOLUME  479890.393 3742895.414 440.46
LOCATION L0008103    VOLUME  479890.397 3742899.071 440.45
LOCATION L0008104    VOLUME  479890.401 3742902.729 440.45
LOCATION L0008105    VOLUME  479890.404 3742906.386 440.44
LOCATION L0008106    VOLUME  479890.408 3742910.044 440.44
LOCATION L0008107    VOLUME  479890.412 3742913.702 440.43
LOCATION L0008108    VOLUME  479890.415 3742917.359 440.44
LOCATION L0008109    VOLUME  479890.419 3742921.017 440.44
LOCATION L0008110    VOLUME  479890.422 3742924.674 440.45
LOCATION L0008111    VOLUME  479890.426 3742928.332 440.45
LOCATION L0008112    VOLUME  479890.430 3742931.990 440.45
LOCATION L0008113    VOLUME  479890.433 3742935.647 440.46
LOCATION L0008114    VOLUME  479890.437 3742939.305 440.46
LOCATION L0008115    VOLUME  479890.441 3742942.962 440.47
LOCATION L0008116    VOLUME  479890.444 3742946.620 440.47
LOCATION L0008117    VOLUME  479890.448 3742950.278 440.48
LOCATION L0008118    VOLUME  479890.452 3742953.935 440.48
LOCATION L0008119    VOLUME  479890.455 3742957.593 440.49
LOCATION L0008120    VOLUME  479890.459 3742961.250 440.49
LOCATION L0008121    VOLUME  479890.462 3742964.908 440.50
LOCATION L0008122    VOLUME  479890.466 3742968.566 440.50
LOCATION L0008123    VOLUME  479890.470 3742972.223 440.51
LOCATION L0008124    VOLUME  479890.473 3742975.881 440.52
LOCATION L0008125    VOLUME  479890.477 3742979.538 440.52
LOCATION L0008126    VOLUME  479890.481 3742983.196 440.53
LOCATION L0008127    VOLUME  479890.484 3742986.854 440.53
LOCATION L0008128    VOLUME  479890.488 3742990.511 440.54
LOCATION L0008129    VOLUME  479890.491 3742994.169 440.54
LOCATION L0008130    VOLUME  479890.495 3742997.826 440.55
LOCATION L0008131    VOLUME  479890.499 3743001.484 440.55
LOCATION L0008132    VOLUME  479890.502 3743005.142 440.56
LOCATION L0008133    VOLUME  479890.506 3743008.799 440.57
LOCATION L0008134    VOLUME  479890.510 3743012.457 440.59
LOCATION L0008135    VOLUME  479890.513 3743016.114 440.61
LOCATION L0008136    VOLUME  479890.517 3743019.772 440.62
LOCATION L0008137    VOLUME  479890.520 3743023.430 440.64
LOCATION L0008138    VOLUME  479890.524 3743027.087 440.65
LOCATION L0008139    VOLUME  479890.528 3743030.745 440.67
LOCATION L0008140    VOLUME  479890.531 3743034.402 440.69
LOCATION L0008141    VOLUME  479890.535 3743038.060 440.70
LOCATION L0008142    VOLUME  479890.539 3743041.718 440.73

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LOCATION	VOLUME	479890.542	3743045.375	440.75
LOCATION L0008143	VOLUME	479890.542	3743045.375	440.75
LOCATION L0008144	VOLUME	479890.546	3743049.033	440.77
LOCATION L0008145	VOLUME	479890.550	3743052.690	440.79
LOCATION L0008146	VOLUME	479890.553	3743056.348	440.81
LOCATION L0008147	VOLUME	479890.557	3743060.006	440.83
LOCATION L0008148	VOLUME	479890.560	3743063.663	440.85
LOCATION L0008149	VOLUME	479890.564	3743067.321	440.87
LOCATION L0008150	VOLUME	479890.568	3743070.978	440.89
LOCATION L0008151	VOLUME	479890.571	3743074.636	440.90
LOCATION L0008152	VOLUME	479890.575	3743078.294	440.92
LOCATION L0008153	VOLUME	479890.579	3743081.951	440.93
LOCATION L0008154	VOLUME	479890.582	3743085.609	440.95
LOCATION L0008155	VOLUME	479890.586	3743089.266	440.96
LOCATION L0008156	VOLUME	479890.589	3743092.924	440.98
LOCATION L0008157	VOLUME	479890.593	3743096.582	441.00
LOCATION L0008158	VOLUME	479890.597	3743100.239	441.00

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Offsite Redlands Ave north of northern project driveway

\*\* PREFIX

\*\* Length of Side = 3.66

\*\* Configuration = Adjacent

\*\* Emission Rate = 4.74E-06

\*\* Elevated

\*\* Vertical Dimension = 3.66

\*\* SZINIT = 0.85

\*\* Nodes = 5

\*\* 479890.143, 3743103.577, 441.04, 0.00, 1.70

\*\* 479896.144, 3743335.805, 440.42, 0.00, 1.70

\*\* 479904.078, 3743363.665, 440.21, 0.00, 1.70

\*\* 479907.418, 3743562.283, 439.77, 0.00, 1.70

\*\* 479907.757, 3743565.880, 439.77, 0.00, 1.70

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LOCATION L0008159	VOLUME	479890.190	3743105.405	441.00
LOCATION L0008160	VOLUME	479890.285	3743109.061	441.00
LOCATION L0008161	VOLUME	479890.379	3743112.717	440.99
LOCATION L0008162	VOLUME	479890.474	3743116.374	440.99
LOCATION L0008163	VOLUME	479890.568	3743120.030	440.99
LOCATION L0008164	VOLUME	479890.663	3743123.687	440.99
LOCATION L0008165	VOLUME	479890.757	3743127.343	440.99
LOCATION L0008166	VOLUME	479890.852	3743130.999	440.98
LOCATION L0008167	VOLUME	479890.946	3743134.656	440.97
LOCATION L0008168	VOLUME	479891.041	3743138.312	440.97
LOCATION L0008169	VOLUME	479891.135	3743141.969	440.96
LOCATION L0008170	VOLUME	479891.230	3743145.625	440.95
LOCATION L0008171	VOLUME	479891.324	3743149.281	440.95
LOCATION L0008172	VOLUME	479891.419	3743152.938	440.94
LOCATION L0008173	VOLUME	479891.513	3743156.594	440.93
LOCATION L0008174	VOLUME	479891.607	3743160.250	440.92

LOCATION	L0008175	VOLUME	479891.702	3743163.907	440.91
LOCATION	L0008176	VOLUME	479891.796	3743167.563	440.90
LOCATION	L0008177	VOLUME	479891.891	3743171.220	440.89
LOCATION	L0008178	VOLUME	479891.985	3743174.876	440.88
LOCATION	L0008179	VOLUME	479892.080	3743178.532	440.87
LOCATION	L0008180	VOLUME	479892.174	3743182.189	440.86
LOCATION	L0008181	VOLUME	479892.269	3743185.845	440.85
LOCATION	L0008182	VOLUME	479892.363	3743189.501	440.84
LOCATION	L0008183	VOLUME	479892.458	3743193.158	440.83
LOCATION	L0008184	VOLUME	479892.552	3743196.814	440.83
LOCATION	L0008185	VOLUME	479892.647	3743200.471	440.82
LOCATION	L0008186	VOLUME	479892.741	3743204.127	440.81
LOCATION	L0008187	VOLUME	479892.836	3743207.783	440.81
LOCATION	L0008188	VOLUME	479892.930	3743211.440	440.80
LOCATION	L0008189	VOLUME	479893.025	3743215.096	440.79
LOCATION	L0008190	VOLUME	479893.119	3743218.752	440.79
LOCATION	L0008191	VOLUME	479893.214	3743222.409	440.78
LOCATION	L0008192	VOLUME	479893.308	3743226.065	440.77
LOCATION	L0008193	VOLUME	479893.403	3743229.722	440.77
LOCATION	L0008194	VOLUME	479893.497	3743233.378	440.76
LOCATION	L0008195	VOLUME	479893.592	3743237.034	440.75
LOCATION	L0008196	VOLUME	479893.686	3743240.691	440.75
LOCATION	L0008197	VOLUME	479893.780	3743244.347	440.74
LOCATION	L0008198	VOLUME	479893.875	3743248.004	440.73
LOCATION	L0008199	VOLUME	479893.969	3743251.660	440.73
LOCATION	L0008200	VOLUME	479894.064	3743255.316	440.72
LOCATION	L0008201	VOLUME	479894.158	3743258.973	440.70
LOCATION	L0008202	VOLUME	479894.253	3743262.629	440.69
LOCATION	L0008203	VOLUME	479894.347	3743266.285	440.68
LOCATION	L0008204	VOLUME	479894.442	3743269.942	440.67
LOCATION	L0008205	VOLUME	479894.536	3743273.598	440.65
LOCATION	L0008206	VOLUME	479894.631	3743277.255	440.64
LOCATION	L0008207	VOLUME	479894.725	3743280.911	440.63
LOCATION	L0008208	VOLUME	479894.820	3743284.567	440.62
LOCATION	L0008209	VOLUME	479894.914	3743288.224	440.61
LOCATION	L0008210	VOLUME	479895.009	3743291.880	440.60
LOCATION	L0008211	VOLUME	479895.103	3743295.536	440.59
LOCATION	L0008212	VOLUME	479895.198	3743299.193	440.57
LOCATION	L0008213	VOLUME	479895.292	3743302.849	440.56
LOCATION	L0008214	VOLUME	479895.387	3743306.506	440.55
LOCATION	L0008215	VOLUME	479895.481	3743310.162	440.54
LOCATION	L0008216	VOLUME	479895.576	3743313.818	440.53
LOCATION	L0008217	VOLUME	479895.670	3743317.475	440.51
LOCATION	L0008218	VOLUME	479895.765	3743321.131	440.50
LOCATION	L0008219	VOLUME	479895.859	3743324.787	440.48
LOCATION	L0008220	VOLUME	479895.953	3743328.444	440.47
LOCATION	L0008221	VOLUME	479896.048	3743332.100	440.45
LOCATION	L0008222	VOLUME	479896.142	3743335.757	440.44
LOCATION	L0008223	VOLUME	479897.132	3743339.276	440.42
LOCATION	L0008224	VOLUME	479898.134	3743342.794	440.40
LOCATION	L0008225	VOLUME	479899.136	3743346.312	440.38

LOCATION	L0008226	VOLUME	479900.138	3743349.829	440.35
LOCATION	L0008227	VOLUME	479901.139	3743353.347	440.32
LOCATION	L0008228	VOLUME	479902.141	3743356.865	440.29
LOCATION	L0008229	VOLUME	479903.143	3743360.383	440.27
LOCATION	L0008230	VOLUME	479904.082	3743363.910	440.25
LOCATION	L0008231	VOLUME	479904.144	3743367.567	440.22
LOCATION	L0008232	VOLUME	479904.205	3743371.224	440.19
LOCATION	L0008233	VOLUME	479904.267	3743374.881	440.17
LOCATION	L0008234	VOLUME	479904.328	3743378.538	440.13
LOCATION	L0008235	VOLUME	479904.390	3743382.195	440.10
LOCATION	L0008236	VOLUME	479904.451	3743385.852	440.06
LOCATION	L0008237	VOLUME	479904.513	3743389.509	440.03
LOCATION	L0008238	VOLUME	479904.574	3743393.166	439.99
LOCATION	L0008239	VOLUME	479904.636	3743396.823	439.96
LOCATION	L0008240	VOLUME	479904.697	3743400.480	439.93
LOCATION	L0008241	VOLUME	479904.758	3743404.138	439.89
LOCATION	L0008242	VOLUME	479904.820	3743407.795	439.88
LOCATION	L0008243	VOLUME	479904.881	3743411.452	439.87
LOCATION	L0008244	VOLUME	479904.943	3743415.109	439.87
LOCATION	L0008245	VOLUME	479905.004	3743418.766	439.86
LOCATION	L0008246	VOLUME	479905.066	3743422.423	439.85
LOCATION	L0008247	VOLUME	479905.127	3743426.080	439.85
LOCATION	L0008248	VOLUME	479905.189	3743429.737	439.84
LOCATION	L0008249	VOLUME	479905.250	3743433.394	439.83
LOCATION	L0008250	VOLUME	479905.312	3743437.051	439.83
LOCATION	L0008251	VOLUME	479905.373	3743440.708	439.85
LOCATION	L0008252	VOLUME	479905.435	3743444.365	439.86
LOCATION	L0008253	VOLUME	479905.496	3743448.023	439.88
LOCATION	L0008254	VOLUME	479905.558	3743451.680	439.90
LOCATION	L0008255	VOLUME	479905.619	3743455.337	439.91
LOCATION	L0008256	VOLUME	479905.681	3743458.994	439.93
LOCATION	L0008257	VOLUME	479905.742	3743462.651	439.94
LOCATION	L0008258	VOLUME	479905.804	3743466.308	439.96
LOCATION	L0008259	VOLUME	479905.865	3743469.965	439.95
LOCATION	L0008260	VOLUME	479905.927	3743473.622	439.94
LOCATION	L0008261	VOLUME	479905.988	3743477.279	439.93
LOCATION	L0008262	VOLUME	479906.050	3743480.936	439.91
LOCATION	L0008263	VOLUME	479906.111	3743484.593	439.90
LOCATION	L0008264	VOLUME	479906.173	3743488.250	439.89
LOCATION	L0008265	VOLUME	479906.234	3743491.908	439.88
LOCATION	L0008266	VOLUME	479906.296	3743495.565	439.86
LOCATION	L0008267	VOLUME	479906.357	3743499.222	439.85
LOCATION	L0008268	VOLUME	479906.419	3743502.879	439.84
LOCATION	L0008269	VOLUME	479906.480	3743506.536	439.84
LOCATION	L0008270	VOLUME	479906.542	3743510.193	439.83
LOCATION	L0008271	VOLUME	479906.603	3743513.850	439.82
LOCATION	L0008272	VOLUME	479906.665	3743517.507	439.81
LOCATION	L0008273	VOLUME	479906.726	3743521.164	439.80
LOCATION	L0008274	VOLUME	479906.788	3743524.821	439.79
LOCATION	L0008275	VOLUME	479906.849	3743528.478	439.78
LOCATION	L0008276	VOLUME	479906.911	3743532.135	439.78

LOCATION	L0008277	VOLUME	479906.972	3743535.792	439.77
LOCATION	L0008278	VOLUME	479907.034	3743539.450	439.77
LOCATION	L0008279	VOLUME	479907.095	3743543.107	439.76
LOCATION	L0008280	VOLUME	479907.157	3743546.764	439.75
LOCATION	L0008281	VOLUME	479907.218	3743550.421	439.75
LOCATION	L0008282	VOLUME	479907.280	3743554.078	439.74
LOCATION	L0008283	VOLUME	479907.341	3743557.735	439.74
LOCATION	L0008284	VOLUME	479907.403	3743561.392	439.73
LOCATION	L0008285	VOLUME	479907.678	3743565.037	439.73
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	479782.060	3742912.560	440.710
** DESCRSRC Idle 1					
LOCATION	STCK2	POINT	479715.190	3742912.990	440.960
** DESCRSRC Idle 2					
LOCATION	STCK3	POINT	479747.590	3742881.180	440.910
** DESCRSRC Idle 3					
LOCATION	STCK4	POINT	479780.300	3743074.970	441.090
** DESCRSRC Idle 4					
LOCATION	STCK5	POINT	479686.860	3743078.130	441.280
** DESCRSRC Idle 5					
LOCATION	STCK6	POINT	479594.670	3743090.200	441.400
** DESCRSRC Idle 6					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0007636	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007637	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007638	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007639	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007640	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007641	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007642	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007643	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007644	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007645	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007646	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007647	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007648	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007649	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007650	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007651	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007652	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007653	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007654	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007655	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007656	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007657	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007658	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007659	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007660	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007661	0.0000002872	0.00	1.70	6.52
SRCPARAM	L0007662	0.0000002872	0.00	1.70	6.52





SRCPARAM	L0007714	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007715	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007716	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007717	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007718	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007719	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007720	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007721	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007722	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007723	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007724	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007725	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007726	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007727	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007728	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007729	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007730	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007731	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007732	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007733	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007734	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007735	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007736	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007737	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007738	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007739	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007740	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007741	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007742	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007743	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007744	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007745	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007746	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007747	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007748	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007749	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007750	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007751	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007752	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007753	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007754	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007755	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007756	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007757	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007758	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007759	0.00000002872	0.00	1.70	6.52
SRCPARAM	L0007760	0.00000002872	0.00	1.70	6.52

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\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM	L0007761	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007762	0.00000002862	0.00	1.70	6.52



SRCPARAM	L0007814	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007815	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007816	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007817	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007818	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007819	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007820	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007821	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007822	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007823	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007824	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007825	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007826	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007827	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007828	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007829	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007830	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007831	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007832	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007833	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007834	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007835	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007836	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007837	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007838	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007839	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007840	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007841	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007842	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007843	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007844	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007845	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007846	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007847	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007848	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007849	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007850	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007851	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007852	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007853	0.00000002862	0.00	1.70	6.52
SRCPARAM	L0007854	0.00000002862	0.00	1.70	6.52

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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM	L0008100	0.00000001881	0.00	1.70	0.85
SRCPARAM	L0008101	0.00000001881	0.00	1.70	0.85
SRCPARAM	L0008102	0.00000001881	0.00	1.70	0.85
SRCPARAM	L0008103	0.00000001881	0.00	1.70	0.85
SRCPARAM	L0008104	0.00000001881	0.00	1.70	0.85
SRCPARAM	L0008105	0.00000001881	0.00	1.70	0.85
SRCPARAM	L0008106	0.00000001881	0.00	1.70	0.85
SRCPARAM	L0008107	0.00000001881	0.00	1.70	0.85



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** LINE VOLUME Source ID = SLINE4
SRCPARAM L0008159 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008160 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008161 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008162 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008163 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008164 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008165 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008166 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008167 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008168 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008169 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008170 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008171 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008172 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008173 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008174 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008175 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008176 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008177 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008178 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008179 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008180 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008181 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008182 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008183 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008184 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008185 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008186 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008187 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008188 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008189 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008190 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008191 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008192 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008193 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008194 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008195 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008196 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008197 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008198 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008199 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008200 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008201 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008202 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008203 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008204 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008205 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008206 0.00000003732 0.00 1.70 0.85
SRCPARAM L0008207 0.00000003732 0.00 1.70 0.85

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SRCPARAM	L0008259	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008260	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008261	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008262	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008263	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008264	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008265	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008266	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008267	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008268	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008269	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008270	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008271	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008272	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008273	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008274	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008275	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008276	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008277	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008278	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008279	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008280	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008281	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008282	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008283	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008284	0.00000003732	0.00	1.70	0.85
SRCPARAM	L0008285	0.00000003732	0.00	1.70	0.85

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SRCPARAM	STCK1	0.0000111	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000111	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000111	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000111	3.658	366.000	51.90000	0.100
SRCPARAM	STCK5	0.0000111	3.658	366.000	51.90000	0.100
SRCPARAM	STCK6	0.0000111	3.658	366.000	51.90000	0.100

\*\* Building Downwash \*\*

BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02

BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	14.02	14.02	14.02	14.02	0.00	0.00
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01



BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	186.37	194.99	219.24	236.83
BUILDWID	STCK6	247.22	250.11	246.23	238.75	0.00	0.00
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29

BUILDLLEN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	205.01	228.19	246.99	258.29
BUILDLLEN	STCK6	261.74	257.23	244.91	225.15	0.00	0.00
XBADJ	STCK1	-14.33	-35.21	-55.02	-73.16	-89.07	-103.12
XBADJ	STCK1	-117.90	-129.11	-136.39	-161.49	-181.67	-196.34
XBADJ	STCK1	-205.04	-207.52	-203.68	-193.66	-177.76	-174.35
XBADJ	STCK1	-180.65	-184.03	-181.81	-174.07	-161.04	-143.11
XBADJ	STCK1	-120.84	-94.90	-68.62	-66.71	-65.32	-61.95
XBADJ	STCK1	-56.69	-49.72	-41.23	-31.49	-20.79	-12.02
XBADJ	STCK2	-3.15	-12.75	-21.96	-30.50	-38.12	-45.42
XBADJ	STCK2	-55.21	-63.33	-69.52	-95.56	-118.69	-138.22
XBADJ	STCK2	-153.54	-164.20	-169.88	-170.39	-165.72	-173.92
XBADJ	STCK2	-191.84	-206.49	-214.87	-216.72	-211.99	-200.81
XBADJ	STCK2	-183.53	-160.68	-135.49	-132.64	-128.31	-120.07
XBADJ	STCK2	-108.20	-93.03	-75.03	-54.76	-32.82	-12.45
XBADJ	STCK3	22.56	6.07	-10.61	-26.96	-42.49	-57.58
XBADJ	STCK3	-74.78	-89.71	0.00	0.00	-160.02	-182.18
XBADJ	STCK3	-198.81	-209.40	-213.63	-211.36	-202.67	-205.73
XBADJ	STCK3	-217.54	-225.30	-226.22	-220.26	-207.61	-188.66
XBADJ	STCK3	-163.96	-134.29	0.00	0.00	-86.98	-76.11
XBADJ	STCK3	-62.93	-47.83	-31.29	-13.79	4.13	19.36
XBADJ	STCK4	-173.97	-187.23	-194.79	-196.44	-192.12	-182.80
XBADJ	STCK4	-171.80	-155.58	-134.63	-131.55	-124.47	-113.61
XBADJ	STCK4	-99.30	-81.97	-62.15	-40.45	-17.51	-11.94
XBADJ	STCK4	-21.02	-32.01	-42.04	-50.79	-57.99	-63.43
XBADJ	STCK4	-66.95	-68.43	-70.38	-96.64	-122.52	-144.68
XBADJ	STCK4	-162.44	-175.26	-182.76	-184.70	-181.04	-174.43
XBADJ	STCK5	-160.86	-158.24	-150.81	-138.80	-122.57	-103.46
XBADJ	STCK5	-85.07	-64.11	-41.19	-38.98	-35.59	-31.11
XBADJ	STCK5	-25.69	-19.49	-12.70	-5.52	1.83	-8.78
XBADJ	STCK5	-34.13	-61.00	-86.02	-108.43	-127.54	-142.77
XBADJ	STCK5	-153.67	-159.90	-163.82	-189.21	-211.41	-227.18
XBADJ	STCK5	-236.05	-237.74	-232.22	-219.63	-200.38	-177.59
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	-256.01	-282.10	-302.17	-313.05
XBADJ	STCK6	-314.43	-306.25	-288.76	-262.50	0.00	0.00

YBADJ	STCK1	47.39	58.18	67.20	74.18	78.90	81.23
YBADJ	STCK1	81.09	78.48	81.17	83.16	74.41	63.39
YBADJ	STCK1	50.46	35.98	20.00	1.47	-17.11	-33.89
YBADJ	STCK1	-47.39	-58.18	-67.20	-74.18	-78.90	-81.23
YBADJ	STCK1	-81.09	-78.48	-81.17	-83.16	-74.41	-63.39
YBADJ	STCK1	-50.46	-35.98	-20.00	-1.47	17.11	33.89
YBADJ	STCK2	-18.54	-4.81	9.07	22.67	35.59	47.42
YBADJ	STCK2	57.81	66.45	80.74	94.35	96.87	96.46
YBADJ	STCK2	93.11	86.93	77.69	64.16	48.67	32.98
YBADJ	STCK2	18.54	4.81	-9.07	-22.67	-35.59	-47.42
YBADJ	STCK2	-57.81	-66.45	-80.74	-94.35	-96.87	-96.46
YBADJ	STCK2	-93.11	-86.93	-77.69	-64.16	-48.67	-32.98
YBADJ	STCK3	18.89	36.52	53.04	67.94	80.78	91.17
YBADJ	STCK3	98.79	103.40	0.00	0.00	115.68	107.81
YBADJ	STCK3	96.65	82.56	65.54	44.59	22.29	0.58
YBADJ	STCK3	-18.89	-36.52	-53.04	-67.94	-80.78	-91.17
YBADJ	STCK3	-98.79	-103.40	0.00	0.00	-115.68	-107.81
YBADJ	STCK3	-96.65	-82.56	-65.54	-44.59	-22.29	-0.58
YBADJ	STCK4	17.45	0.98	-15.53	-31.57	-46.64	-60.30
YBADJ	STCK4	-72.13	-81.76	-81.24	-76.48	-77.61	-76.38
YBADJ	STCK4	-72.83	-67.06	-59.68	-52.43	-43.57	-32.12
YBADJ	STCK4	-17.45	-0.97	15.53	31.57	46.64	60.30
YBADJ	STCK4	72.13	81.76	81.24	76.48	77.61	76.38
YBADJ	STCK4	72.83	67.06	59.68	52.43	43.57	32.12
YBADJ	STCK5	-75.12	-87.91	-98.03	-105.18	-109.13	-109.76
YBADJ	STCK5	-107.06	-101.10	-84.40	-63.36	-48.62	-32.39
YBADJ	STCK5	-15.19	2.48	19.66	34.30	47.90	61.32
YBADJ	STCK5	75.12	87.91	98.03	105.18	109.13	109.76
YBADJ	STCK5	107.06	101.10	84.40	63.36	48.62	32.39
YBADJ	STCK5	15.19	-2.48	-19.66	-34.30	-47.90	-61.32
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	96.47	59.24	28.43	-3.25
YBADJ	STCK6	-34.83	-65.35	-93.46	-116.80	0.00	0.00

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

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RE STARTING  
INCLUDED "19370 Redlands Avenue West 2026-39.rou"

RE FINISHED

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\*\*\*\*\*  
\*\* 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 "19370 REDLANDS AVENUE WEST 2026-39.AD\PE00GALL.PLT" 31  
SUMMFILE "19370 Redlands Avenue West 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           8 Warning Message(s)  
A Total of           0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320	946	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	947	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	948	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	949	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	950	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	951	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1189	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50

ME W187 1189 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/16/21  
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\*\*\* MODELOPTs: RegDEFAULT 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 411 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: 411 Source(s); 1 Source Group(s); and 448 Receptor(s)

with: 6 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 405 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 = 4.3 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 19370 Redlands Avenue West 2026-39.err  
 \*\*File for Summary of Results: 19370 Redlands Avenue West 2026-39.sum

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/16/21  
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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	0.11100E-04	479782.1	3742912.6	440.7	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.11100E-04	479715.2	3742913.0	441.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.11100E-04	479747.6	3742881.2	440.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.11100E-04	479780.3	3743075.0	441.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.11100E-04	479686.9	3743078.1	441.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.11100E-04	479594.7	3743090.2	441.4	3.66	366.00	51.90	0.10	YES	YES	NO	

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0007636	0	0.28720E-07	479885.1	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007637	0	0.28720E-07	479881.4	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007638	0	0.28720E-07	479877.7	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007639	0	0.28720E-07	479874.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007640	0	0.28720E-07	479870.4	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007641	0	0.28720E-07	479866.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007642	0	0.28720E-07	479863.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007643	0	0.28720E-07	479859.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007644	0	0.28720E-07	479855.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007645	0	0.28720E-07	479852.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007646	0	0.28720E-07	479848.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007647	0	0.28720E-07	479844.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0007648	0	0.28720E-07	479841.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007649	0	0.28720E-07	479837.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007650	0	0.28720E-07	479833.9	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007651	0	0.28720E-07	479830.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007652	0	0.28720E-07	479826.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0007653	0	0.28720E-07	479822.9	3742886.1	440.6	0.00	1.70	6.52	YES	
L0007654	0	0.28720E-07	479819.2	3742886.1	440.6	0.00	1.70	6.52	YES	
L0007655	0	0.28720E-07	479815.6	3742886.3	440.6	0.00	1.70	6.52	YES	
L0007656	0	0.28720E-07	479811.9	3742886.7	440.6	0.00	1.70	6.52	YES	
L0007657	0	0.28720E-07	479808.3	3742887.1	440.7	0.00	1.70	6.52	YES	
L0007658	0	0.28720E-07	479804.7	3742887.4	440.7	0.00	1.70	6.52	YES	
L0007659	0	0.28720E-07	479801.0	3742887.8	440.7	0.00	1.70	6.52	YES	
L0007660	0	0.28720E-07	479797.4	3742888.2	440.7	0.00	1.70	6.52	YES	
L0007661	0	0.28720E-07	479793.7	3742888.6	440.7	0.00	1.70	6.52	YES	
L0007662	0	0.28720E-07	479790.1	3742888.9	440.7	0.00	1.70	6.52	YES	
L0007663	0	0.28720E-07	479786.5	3742889.3	440.8	0.00	1.70	6.52	YES	
L0007664	0	0.28720E-07	479782.8	3742889.7	440.8	0.00	1.70	6.52	YES	
L0007665	0	0.28720E-07	479779.2	3742890.1	440.8	0.00	1.70	6.52	YES	
L0007666	0	0.28720E-07	479775.6	3742890.4	440.8	0.00	1.70	6.52	YES	
L0007667	0	0.28720E-07	479771.9	3742890.8	440.8	0.00	1.70	6.52	YES	
L0007668	0	0.28720E-07	479768.3	3742891.2	440.8	0.00	1.70	6.52	YES	
L0007669	0	0.28720E-07	479764.6	3742891.3	440.8	0.00	1.70	6.52	YES	
L0007670	0	0.28720E-07	479761.0	3742891.3	440.8	0.00	1.70	6.52	YES	
L0007671	0	0.28720E-07	479757.3	3742891.3	440.9	0.00	1.70	6.52	YES	
L0007672	0	0.28720E-07	479753.7	3742891.4	440.9	0.00	1.70	6.52	YES	

L0007673	0	0.28720E-07	479750.0	3742891.4	440.9	0.00	1.70	6.52	YES
L0007674	0	0.28720E-07	479746.3	3742891.5	440.9	0.00	1.70	6.52	YES
L0007675	0	0.28720E-07	479742.7	3742891.5	440.9	0.00	1.70	6.52	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0007676	0	0.28720E-07	479739.0	3742891.5	440.9	0.00	1.70	6.52	YES	
L0007677	0	0.28720E-07	479735.4	3742891.6	440.9	0.00	1.70	6.52	YES	
L0007678	0	0.28720E-07	479731.7	3742891.6	440.9	0.00	1.70	6.52	YES	
L0007679	0	0.28720E-07	479728.1	3742891.7	440.9	0.00	1.70	6.52	YES	
L0007680	0	0.28720E-07	479724.4	3742891.7	441.0	0.00	1.70	6.52	YES	
L0007681	0	0.28720E-07	479720.7	3742891.7	441.0	0.00	1.70	6.52	YES	
L0007682	0	0.28720E-07	479717.1	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007683	0	0.28720E-07	479713.4	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007684	0	0.28720E-07	479709.8	3742891.9	441.0	0.00	1.70	6.52	YES	
L0007685	0	0.28720E-07	479706.1	3742891.9	441.0	0.00	1.70	6.52	YES	
L0007686	0	0.28720E-07	479702.5	3742891.8	441.0	0.00	1.70	6.52	YES	
L0007687	0	0.28720E-07	479698.8	3742891.6	441.0	0.00	1.70	6.52	YES	
L0007688	0	0.28720E-07	479695.1	3742891.5	441.0	0.00	1.70	6.52	YES	
L0007689	0	0.28720E-07	479691.5	3742891.3	441.1	0.00	1.70	6.52	YES	
L0007690	0	0.28720E-07	479687.8	3742891.2	441.1	0.00	1.70	6.52	YES	
L0007691	0	0.28720E-07	479684.2	3742891.0	441.1	0.00	1.70	6.52	YES	
L0007692	0	0.28720E-07	479680.5	3742890.9	441.1	0.00	1.70	6.52	YES	
L0007693	0	0.28720E-07	479677.0	3742891.6	441.1	0.00	1.70	6.52	YES	
L0007694	0	0.28720E-07	479673.7	3742893.1	441.1	0.00	1.70	6.52	YES	
L0007695	0	0.28720E-07	479670.4	3742894.7	441.1	0.00	1.70	6.52	YES	
L0007696	0	0.28720E-07	479667.1	3742896.2	441.1	0.00	1.70	6.52	YES	
L0007697	0	0.28720E-07	479664.7	3742898.8	441.2	0.00	1.70	6.52	YES	
L0007698	0	0.28720E-07	479662.8	3742901.9	441.2	0.00	1.70	6.52	YES	
L0007699	0	0.28720E-07	479661.0	3742905.1	441.2	0.00	1.70	6.52	YES	
L0007700	0	0.28720E-07	479659.1	3742908.2	441.2	0.00	1.70	6.52	YES	
L0007701	0	0.28720E-07	479657.2	3742911.4	441.2	0.00	1.70	6.52	YES	
L0007702	0	0.28720E-07	479655.3	3742914.5	441.2	0.00	1.70	6.52	YES	
L0007703	0	0.28720E-07	479653.4	3742917.6	441.2	0.00	1.70	6.52	YES	
L0007704	0	0.28720E-07	479651.5	3742920.8	441.2	0.00	1.70	6.52	YES	
L0007705	0	0.28720E-07	479649.7	3742923.9	441.2	0.00	1.70	6.52	YES	
L0007706	0	0.28720E-07	479647.8	3742927.0	441.2	0.00	1.70	6.52	YES	
L0007707	0	0.28720E-07	479645.9	3742930.2	441.2	0.00	1.70	6.52	YES	
L0007708	0	0.28720E-07	479644.0	3742933.3	441.2	0.00	1.70	6.52	YES	
L0007709	0	0.28720E-07	479642.1	3742936.4	441.2	0.00	1.70	6.52	YES	



L0007710	0	0.28720E-07	479640.2	3742939.6	441.2	0.00	1.70	6.52	YES
L0007711	0	0.28720E-07	479638.4	3742942.7	441.2	0.00	1.70	6.52	YES
L0007712	0	0.28720E-07	479636.5	3742945.8	441.2	0.00	1.70	6.52	YES
L0007713	0	0.28720E-07	479634.6	3742949.0	441.2	0.00	1.70	6.52	YES
L0007714	0	0.28720E-07	479633.0	3742952.3	441.2	0.00	1.70	6.52	YES
L0007715	0	0.28720E-07	479631.5	3742955.6	441.2	0.00	1.70	6.52	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
L0007716	0	0.28720E-07	479630.1	3742959.0	441.2	0.00	1.70	6.52	YES	
L0007717	0	0.28720E-07	479628.6	3742962.3	441.2	0.00	1.70	6.52	YES	
L0007718	0	0.28720E-07	479627.1	3742965.7	441.2	0.00	1.70	6.52	YES	
L0007719	0	0.28720E-07	479625.7	3742969.0	441.2	0.00	1.70	6.52	YES	
L0007720	0	0.28720E-07	479624.2	3742972.4	441.2	0.00	1.70	6.52	YES	
L0007721	0	0.28720E-07	479622.8	3742975.7	441.3	0.00	1.70	6.52	YES	
L0007722	0	0.28720E-07	479621.3	3742979.1	441.3	0.00	1.70	6.52	YES	
L0007723	0	0.28720E-07	479619.8	3742982.4	441.3	0.00	1.70	6.52	YES	
L0007724	0	0.28720E-07	479618.4	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007725	0	0.28720E-07	479622.0	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007726	0	0.28720E-07	479625.7	3742985.8	441.3	0.00	1.70	6.52	YES	
L0007727	0	0.28720E-07	479629.3	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007728	0	0.28720E-07	479633.0	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007729	0	0.28720E-07	479636.7	3742985.7	441.2	0.00	1.70	6.52	YES	
L0007730	0	0.28720E-07	479638.7	3742987.3	441.2	0.00	1.70	6.52	YES	
L0007731	0	0.28720E-07	479638.7	3742991.0	441.2	0.00	1.70	6.52	YES	
L0007732	0	0.28720E-07	479638.7	3742994.7	441.2	0.00	1.70	6.52	YES	
L0007733	0	0.28720E-07	479638.7	3742998.3	441.2	0.00	1.70	6.52	YES	
L0007734	0	0.28720E-07	479638.8	3743002.0	441.2	0.00	1.70	6.52	YES	
L0007735	0	0.28720E-07	479638.8	3743005.6	441.3	0.00	1.70	6.52	YES	
L0007736	0	0.28720E-07	479638.8	3743009.3	441.3	0.00	1.70	6.52	YES	
L0007737	0	0.28720E-07	479638.8	3743012.9	441.3	0.00	1.70	6.52	YES	
L0007738	0	0.28720E-07	479638.8	3743016.6	441.3	0.00	1.70	6.52	YES	
L0007739	0	0.28720E-07	479638.8	3743020.3	441.3	0.00	1.70	6.52	YES	
L0007740	0	0.28720E-07	479638.9	3743023.9	441.3	0.00	1.70	6.52	YES	
L0007741	0	0.28720E-07	479638.9	3743027.6	441.3	0.00	1.70	6.52	YES	
L0007742	0	0.28720E-07	479638.9	3743031.2	441.3	0.00	1.70	6.52	YES	
L0007743	0	0.28720E-07	479638.9	3743034.9	441.3	0.00	1.70	6.52	YES	
L0007744	0	0.28720E-07	479638.9	3743038.5	441.3	0.00	1.70	6.52	YES	
L0007745	0	0.28720E-07	479638.7	3743042.0	441.4	0.00	1.70	6.52	YES	
L0007746	0	0.28720E-07	479635.1	3743042.0	441.4	0.00	1.70	6.52	YES	

L0007747	0	0.28720E-07	479631.4	3743042.1	441.4	0.00	1.70	6.52	YES
L0007748	0	0.28720E-07	479627.8	3743042.1	441.4	0.00	1.70	6.52	YES
L0007749	0	0.28720E-07	479624.1	3743042.1	441.4	0.00	1.70	6.52	YES
L0007750	0	0.28720E-07	479620.5	3743042.1	441.4	0.00	1.70	6.52	YES
L0007751	0	0.28720E-07	479616.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0007752	0	0.28720E-07	479613.1	3743042.2	441.4	0.00	1.70	6.52	YES
L0007753	0	0.28720E-07	479609.5	3743042.2	441.4	0.00	1.70	6.52	YES
L0007754	0	0.28720E-07	479605.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0007755	0	0.28720E-07	479602.2	3743042.3	441.5	0.00	1.70	6.52	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
L0007756	0	0.28720E-07	479598.5	3743042.3	441.5	0.00	1.70	6.52	YES	
L0007757	0	0.28720E-07	479594.9	3743042.3	441.5	0.00	1.70	6.52	YES	
L0007758	0	0.28720E-07	479591.2	3743042.3	441.6	0.00	1.70	6.52	YES	
L0007759	0	0.28720E-07	479587.5	3743042.4	441.6	0.00	1.70	6.52	YES	
L0007760	0	0.28720E-07	479583.9	3743042.4	441.6	0.00	1.70	6.52	YES	
L0007761	0	0.28620E-07	479887.8	3743102.4	441.0	0.00	1.70	6.52	YES	
L0007762	0	0.28620E-07	479884.2	3743102.3	441.0	0.00	1.70	6.52	YES	
L0007763	0	0.28620E-07	479880.5	3743102.3	441.0	0.00	1.70	6.52	YES	
L0007764	0	0.28620E-07	479876.8	3743102.2	441.0	0.00	1.70	6.52	YES	
L0007765	0	0.28620E-07	479873.2	3743102.2	441.0	0.00	1.70	6.52	YES	
L0007766	0	0.28620E-07	479869.5	3743102.1	441.0	0.00	1.70	6.52	YES	
L0007767	0	0.28620E-07	479865.9	3743102.1	441.0	0.00	1.70	6.52	YES	
L0007768	0	0.28620E-07	479862.2	3743102.0	441.0	0.00	1.70	6.52	YES	
L0007769	0	0.28620E-07	479858.6	3743102.0	441.0	0.00	1.70	6.52	YES	
L0007770	0	0.28620E-07	479854.9	3743101.9	441.0	0.00	1.70	6.52	YES	
L0007771	0	0.28620E-07	479851.2	3743101.9	441.0	0.00	1.70	6.52	YES	
L0007772	0	0.28620E-07	479847.6	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007773	0	0.28620E-07	479843.9	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007774	0	0.28620E-07	479840.3	3743101.8	441.0	0.00	1.70	6.52	YES	
L0007775	0	0.28620E-07	479836.6	3743101.7	441.0	0.00	1.70	6.52	YES	
L0007776	0	0.28620E-07	479833.0	3743101.7	441.0	0.00	1.70	6.52	YES	
L0007777	0	0.28620E-07	479829.3	3743101.6	441.0	0.00	1.70	6.52	YES	
L0007778	0	0.28620E-07	479825.6	3743101.6	441.0	0.00	1.70	6.52	YES	
L0007779	0	0.28620E-07	479822.0	3743101.5	441.0	0.00	1.70	6.52	YES	
L0007780	0	0.28620E-07	479818.3	3743101.5	441.0	0.00	1.70	6.52	YES	
L0007781	0	0.28620E-07	479814.7	3743101.1	441.1	0.00	1.70	6.52	YES	
L0007782	0	0.28620E-07	479811.1	3743100.3	441.1	0.00	1.70	6.52	YES	
L0007783	0	0.28620E-07	479807.5	3743099.6	441.1	0.00	1.70	6.52	YES	

L0007784	0	0.28620E-07	479804.0	3743098.9	441.1	0.00	1.70	6.52	YES
L0007785	0	0.28620E-07	479800.4	3743098.1	441.1	0.00	1.70	6.52	YES
L0007786	0	0.28620E-07	479796.8	3743097.4	441.1	0.00	1.70	6.52	YES
L0007787	0	0.28620E-07	479793.2	3743096.7	441.1	0.00	1.70	6.52	YES
L0007788	0	0.28620E-07	479789.6	3743095.9	441.1	0.00	1.70	6.52	YES
L0007789	0	0.28620E-07	479786.0	3743095.2	441.1	0.00	1.70	6.52	YES
L0007790	0	0.28620E-07	479782.5	3743094.5	441.1	0.00	1.70	6.52	YES
L0007791	0	0.28620E-07	479778.9	3743093.7	441.1	0.00	1.70	6.52	YES
L0007792	0	0.28620E-07	479775.2	3743093.8	441.1	0.00	1.70	6.52	YES
L0007793	0	0.28620E-07	479771.6	3743093.9	441.2	0.00	1.70	6.52	YES
L0007794	0	0.28620E-07	479767.9	3743093.9	441.2	0.00	1.70	6.52	YES
L0007795	0	0.28620E-07	479764.2	3743094.0	441.2	0.00	1.70	6.52	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
L0007796	0	0.28620E-07	479760.6	3743094.0	441.2	0.00	1.70	6.52	YES	
L0007797	0	0.28620E-07	479756.9	3743094.1	441.2	0.00	1.70	6.52	YES	
L0007798	0	0.28620E-07	479753.3	3743094.2	441.2	0.00	1.70	6.52	YES	
L0007799	0	0.28620E-07	479749.6	3743094.2	441.2	0.00	1.70	6.52	YES	
L0007800	0	0.28620E-07	479746.0	3743094.3	441.2	0.00	1.70	6.52	YES	
L0007801	0	0.28620E-07	479742.3	3743094.4	441.2	0.00	1.70	6.52	YES	
L0007802	0	0.28620E-07	479738.6	3743094.4	441.2	0.00	1.70	6.52	YES	
L0007803	0	0.28620E-07	479735.0	3743094.5	441.2	0.00	1.70	6.52	YES	
L0007804	0	0.28620E-07	479731.3	3743094.5	441.2	0.00	1.70	6.52	YES	
L0007805	0	0.28620E-07	479727.7	3743094.6	441.2	0.00	1.70	6.52	YES	
L0007806	0	0.28620E-07	479724.0	3743094.7	441.2	0.00	1.70	6.52	YES	
L0007807	0	0.28620E-07	479720.4	3743094.7	441.2	0.00	1.70	6.52	YES	
L0007808	0	0.28620E-07	479716.7	3743094.8	441.2	0.00	1.70	6.52	YES	
L0007809	0	0.28620E-07	479713.0	3743094.9	441.2	0.00	1.70	6.52	YES	
L0007810	0	0.28620E-07	479709.4	3743094.9	441.2	0.00	1.70	6.52	YES	
L0007811	0	0.28620E-07	479705.7	3743095.0	441.2	0.00	1.70	6.52	YES	
L0007812	0	0.28620E-07	479702.1	3743095.1	441.2	0.00	1.70	6.52	YES	
L0007813	0	0.28620E-07	479698.4	3743095.1	441.2	0.00	1.70	6.52	YES	
L0007814	0	0.28620E-07	479694.8	3743095.2	441.2	0.00	1.70	6.52	YES	
L0007815	0	0.28620E-07	479691.1	3743095.2	441.2	0.00	1.70	6.52	YES	
L0007816	0	0.28620E-07	479687.4	3743095.3	441.2	0.00	1.70	6.52	YES	
L0007817	0	0.28620E-07	479683.8	3743095.4	441.2	0.00	1.70	6.52	YES	
L0007818	0	0.28620E-07	479680.1	3743095.4	441.2	0.00	1.70	6.52	YES	
L0007819	0	0.28620E-07	479676.5	3743095.5	441.2	0.00	1.70	6.52	YES	
L0007820	0	0.28620E-07	479672.8	3743095.6	441.2	0.00	1.70	6.52	YES	

L0007821	0	0.28620E-07	479669.2	3743095.6	441.2	0.00	1.70	6.52	YES
L0007822	0	0.28620E-07	479665.5	3743095.7	441.2	0.00	1.70	6.52	YES
L0007823	0	0.28620E-07	479661.8	3743095.7	441.2	0.00	1.70	6.52	YES
L0007824	0	0.28620E-07	479658.2	3743095.8	441.2	0.00	1.70	6.52	YES
L0007825	0	0.28620E-07	479654.5	3743095.9	441.2	0.00	1.70	6.52	YES
L0007826	0	0.28620E-07	479650.9	3743095.9	441.2	0.00	1.70	6.52	YES
L0007827	0	0.28620E-07	479647.2	3743096.0	441.2	0.00	1.70	6.52	YES
L0007828	0	0.28620E-07	479643.6	3743096.1	441.2	0.00	1.70	6.52	YES
L0007829	0	0.28620E-07	479639.9	3743096.1	441.2	0.00	1.70	6.52	YES
L0007830	0	0.28620E-07	479636.2	3743096.2	441.2	0.00	1.70	6.52	YES
L0007831	0	0.28620E-07	479632.6	3743096.3	441.2	0.00	1.70	6.52	YES
L0007832	0	0.28620E-07	479628.9	3743096.3	441.2	0.00	1.70	6.52	YES
L0007833	0	0.28620E-07	479625.3	3743096.4	441.2	0.00	1.70	6.52	YES
L0007834	0	0.28620E-07	479621.6	3743096.4	441.3	0.00	1.70	6.52	YES
L0007835	0	0.28620E-07	479618.0	3743096.5	441.3	0.00	1.70	6.52	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0007836	0	0.28620E-07	479614.3	3743096.6	441.3	0.00	1.70	6.52	YES	
L0007837	0	0.28620E-07	479610.6	3743096.6	441.3	0.00	1.70	6.52	YES	
L0007838	0	0.28620E-07	479607.0	3743096.7	441.3	0.00	1.70	6.52	YES	
L0007839	0	0.28620E-07	479603.3	3743096.8	441.3	0.00	1.70	6.52	YES	
L0007840	0	0.28620E-07	479599.7	3743096.8	441.3	0.00	1.70	6.52	YES	
L0007841	0	0.28620E-07	479596.0	3743096.9	441.3	0.00	1.70	6.52	YES	
L0007842	0	0.28620E-07	479592.4	3743096.9	441.4	0.00	1.70	6.52	YES	
L0007843	0	0.28620E-07	479588.7	3743097.0	441.4	0.00	1.70	6.52	YES	
L0007844	0	0.28620E-07	479585.0	3743097.1	441.4	0.00	1.70	6.52	YES	
L0007845	0	0.28620E-07	479581.4	3743097.1	441.4	0.00	1.70	6.52	YES	
L0007846	0	0.28620E-07	479577.7	3743097.2	441.4	0.00	1.70	6.52	YES	
L0007847	0	0.28620E-07	479574.1	3743097.3	441.4	0.00	1.70	6.52	YES	
L0007848	0	0.28620E-07	479570.4	3743097.3	441.4	0.00	1.70	6.52	YES	
L0007849	0	0.28620E-07	479566.8	3743097.4	441.5	0.00	1.70	6.52	YES	
L0007850	0	0.28620E-07	479563.1	3743097.5	441.5	0.00	1.70	6.52	YES	
L0007851	0	0.28620E-07	479559.4	3743097.5	441.5	0.00	1.70	6.52	YES	
L0007852	0	0.28620E-07	479555.8	3743097.6	441.5	0.00	1.70	6.52	YES	
L0007853	0	0.28620E-07	479552.1	3743097.6	441.6	0.00	1.70	6.52	YES	
L0007854	0	0.28620E-07	479548.5	3743097.7	441.6	0.00	1.70	6.52	YES	
L0008100	0	0.18810E-07	479890.4	3742888.1	440.5	0.00	1.70	0.85	YES	
L0008101	0	0.18810E-07	479890.4	3742891.8	440.5	0.00	1.70	0.85	YES	
L0008102	0	0.18810E-07	479890.4	3742895.4	440.5	0.00	1.70	0.85	YES	

L0008103	0	0.18810E-07	479890.4	3742899.1	440.4	0.00	1.70	0.85	YES
L0008104	0	0.18810E-07	479890.4	3742902.7	440.4	0.00	1.70	0.85	YES
L0008105	0	0.18810E-07	479890.4	3742906.4	440.4	0.00	1.70	0.85	YES
L0008106	0	0.18810E-07	479890.4	3742910.0	440.4	0.00	1.70	0.85	YES
L0008107	0	0.18810E-07	479890.4	3742913.7	440.4	0.00	1.70	0.85	YES
L0008108	0	0.18810E-07	479890.4	3742917.4	440.4	0.00	1.70	0.85	YES
L0008109	0	0.18810E-07	479890.4	3742921.0	440.4	0.00	1.70	0.85	YES
L0008110	0	0.18810E-07	479890.4	3742924.7	440.4	0.00	1.70	0.85	YES
L0008111	0	0.18810E-07	479890.4	3742928.3	440.4	0.00	1.70	0.85	YES
L0008112	0	0.18810E-07	479890.4	3742932.0	440.4	0.00	1.70	0.85	YES
L0008113	0	0.18810E-07	479890.4	3742935.6	440.5	0.00	1.70	0.85	YES
L0008114	0	0.18810E-07	479890.4	3742939.3	440.5	0.00	1.70	0.85	YES
L0008115	0	0.18810E-07	479890.4	3742943.0	440.5	0.00	1.70	0.85	YES
L0008116	0	0.18810E-07	479890.4	3742946.6	440.5	0.00	1.70	0.85	YES
L0008117	0	0.18810E-07	479890.4	3742950.3	440.5	0.00	1.70	0.85	YES
L0008118	0	0.18810E-07	479890.5	3742953.9	440.5	0.00	1.70	0.85	YES
L0008119	0	0.18810E-07	479890.5	3742957.6	440.5	0.00	1.70	0.85	YES
L0008120	0	0.18810E-07	479890.5	3742961.2	440.5	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
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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
L0008121	0	0.18810E-07	479890.5	3742964.9	440.5	0.00	1.70	0.85	YES	
L0008122	0	0.18810E-07	479890.5	3742968.6	440.5	0.00	1.70	0.85	YES	
L0008123	0	0.18810E-07	479890.5	3742972.2	440.5	0.00	1.70	0.85	YES	
L0008124	0	0.18810E-07	479890.5	3742975.9	440.5	0.00	1.70	0.85	YES	
L0008125	0	0.18810E-07	479890.5	3742979.5	440.5	0.00	1.70	0.85	YES	
L0008126	0	0.18810E-07	479890.5	3742983.2	440.5	0.00	1.70	0.85	YES	
L0008127	0	0.18810E-07	479890.5	3742986.9	440.5	0.00	1.70	0.85	YES	
L0008128	0	0.18810E-07	479890.5	3742990.5	440.5	0.00	1.70	0.85	YES	
L0008129	0	0.18810E-07	479890.5	3742994.2	440.5	0.00	1.70	0.85	YES	
L0008130	0	0.18810E-07	479890.5	3742997.8	440.6	0.00	1.70	0.85	YES	
L0008131	0	0.18810E-07	479890.5	3743001.5	440.6	0.00	1.70	0.85	YES	
L0008132	0	0.18810E-07	479890.5	3743005.1	440.6	0.00	1.70	0.85	YES	
L0008133	0	0.18810E-07	479890.5	3743008.8	440.6	0.00	1.70	0.85	YES	
L0008134	0	0.18810E-07	479890.5	3743012.5	440.6	0.00	1.70	0.85	YES	
L0008135	0	0.18810E-07	479890.5	3743016.1	440.6	0.00	1.70	0.85	YES	
L0008136	0	0.18810E-07	479890.5	3743019.8	440.6	0.00	1.70	0.85	YES	
L0008137	0	0.18810E-07	479890.5	3743023.4	440.6	0.00	1.70	0.85	YES	
L0008138	0	0.18810E-07	479890.5	3743027.1	440.7	0.00	1.70	0.85	YES	
L0008139	0	0.18810E-07	479890.5	3743030.7	440.7	0.00	1.70	0.85	YES	

L0008140	0	0.18810E-07	479890.5	3743034.4	440.7	0.00	1.70	0.85	YES
L0008141	0	0.18810E-07	479890.5	3743038.1	440.7	0.00	1.70	0.85	YES
L0008142	0	0.18810E-07	479890.5	3743041.7	440.7	0.00	1.70	0.85	YES
L0008143	0	0.18810E-07	479890.5	3743045.4	440.8	0.00	1.70	0.85	YES
L0008144	0	0.18810E-07	479890.5	3743049.0	440.8	0.00	1.70	0.85	YES
L0008145	0	0.18810E-07	479890.5	3743052.7	440.8	0.00	1.70	0.85	YES
L0008146	0	0.18810E-07	479890.6	3743056.3	440.8	0.00	1.70	0.85	YES
L0008147	0	0.18810E-07	479890.6	3743060.0	440.8	0.00	1.70	0.85	YES
L0008148	0	0.18810E-07	479890.6	3743063.7	440.9	0.00	1.70	0.85	YES
L0008149	0	0.18810E-07	479890.6	3743067.3	440.9	0.00	1.70	0.85	YES
L0008150	0	0.18810E-07	479890.6	3743071.0	440.9	0.00	1.70	0.85	YES
L0008151	0	0.18810E-07	479890.6	3743074.6	440.9	0.00	1.70	0.85	YES
L0008152	0	0.18810E-07	479890.6	3743078.3	440.9	0.00	1.70	0.85	YES
L0008153	0	0.18810E-07	479890.6	3743082.0	440.9	0.00	1.70	0.85	YES
L0008154	0	0.18810E-07	479890.6	3743085.6	440.9	0.00	1.70	0.85	YES
L0008155	0	0.18810E-07	479890.6	3743089.3	441.0	0.00	1.70	0.85	YES
L0008156	0	0.18810E-07	479890.6	3743092.9	441.0	0.00	1.70	0.85	YES
L0008157	0	0.18810E-07	479890.6	3743096.6	441.0	0.00	1.70	0.85	YES
L0008158	0	0.18810E-07	479890.6	3743100.2	441.0	0.00	1.70	0.85	YES
L0008159	0	0.37320E-07	479890.2	3743105.4	441.0	0.00	1.70	0.85	YES
L0008160	0	0.37320E-07	479890.3	3743109.1	441.0	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
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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
L0008161	0	0.37320E-07	479890.4	3743112.7	441.0	0.00	1.70	0.85	YES	
L0008162	0	0.37320E-07	479890.5	3743116.4	441.0	0.00	1.70	0.85	YES	
L0008163	0	0.37320E-07	479890.6	3743120.0	441.0	0.00	1.70	0.85	YES	
L0008164	0	0.37320E-07	479890.7	3743123.7	441.0	0.00	1.70	0.85	YES	
L0008165	0	0.37320E-07	479890.8	3743127.3	441.0	0.00	1.70	0.85	YES	
L0008166	0	0.37320E-07	479890.9	3743131.0	441.0	0.00	1.70	0.85	YES	
L0008167	0	0.37320E-07	479890.9	3743134.7	441.0	0.00	1.70	0.85	YES	
L0008168	0	0.37320E-07	479891.0	3743138.3	441.0	0.00	1.70	0.85	YES	
L0008169	0	0.37320E-07	479891.1	3743142.0	441.0	0.00	1.70	0.85	YES	
L0008170	0	0.37320E-07	479891.2	3743145.6	440.9	0.00	1.70	0.85	YES	
L0008171	0	0.37320E-07	479891.3	3743149.3	440.9	0.00	1.70	0.85	YES	
L0008172	0	0.37320E-07	479891.4	3743152.9	440.9	0.00	1.70	0.85	YES	
L0008173	0	0.37320E-07	479891.5	3743156.6	440.9	0.00	1.70	0.85	YES	
L0008174	0	0.37320E-07	479891.6	3743160.2	440.9	0.00	1.70	0.85	YES	
L0008175	0	0.37320E-07	479891.7	3743163.9	440.9	0.00	1.70	0.85	YES	
L0008176	0	0.37320E-07	479891.8	3743167.6	440.9	0.00	1.70	0.85	YES	

L0008177	0	0.37320E-07	479891.9	3743171.2	440.9	0.00	1.70	0.85	YES
L0008178	0	0.37320E-07	479892.0	3743174.9	440.9	0.00	1.70	0.85	YES
L0008179	0	0.37320E-07	479892.1	3743178.5	440.9	0.00	1.70	0.85	YES
L0008180	0	0.37320E-07	479892.2	3743182.2	440.9	0.00	1.70	0.85	YES
L0008181	0	0.37320E-07	479892.3	3743185.8	440.9	0.00	1.70	0.85	YES
L0008182	0	0.37320E-07	479892.4	3743189.5	440.8	0.00	1.70	0.85	YES
L0008183	0	0.37320E-07	479892.5	3743193.2	440.8	0.00	1.70	0.85	YES
L0008184	0	0.37320E-07	479892.6	3743196.8	440.8	0.00	1.70	0.85	YES
L0008185	0	0.37320E-07	479892.6	3743200.5	440.8	0.00	1.70	0.85	YES
L0008186	0	0.37320E-07	479892.7	3743204.1	440.8	0.00	1.70	0.85	YES
L0008187	0	0.37320E-07	479892.8	3743207.8	440.8	0.00	1.70	0.85	YES
L0008188	0	0.37320E-07	479892.9	3743211.4	440.8	0.00	1.70	0.85	YES
L0008189	0	0.37320E-07	479893.0	3743215.1	440.8	0.00	1.70	0.85	YES
L0008190	0	0.37320E-07	479893.1	3743218.8	440.8	0.00	1.70	0.85	YES
L0008191	0	0.37320E-07	479893.2	3743222.4	440.8	0.00	1.70	0.85	YES
L0008192	0	0.37320E-07	479893.3	3743226.1	440.8	0.00	1.70	0.85	YES
L0008193	0	0.37320E-07	479893.4	3743229.7	440.8	0.00	1.70	0.85	YES
L0008194	0	0.37320E-07	479893.5	3743233.4	440.8	0.00	1.70	0.85	YES
L0008195	0	0.37320E-07	479893.6	3743237.0	440.8	0.00	1.70	0.85	YES
L0008196	0	0.37320E-07	479893.7	3743240.7	440.8	0.00	1.70	0.85	YES
L0008197	0	0.37320E-07	479893.8	3743244.3	440.7	0.00	1.70	0.85	YES
L0008198	0	0.37320E-07	479893.9	3743248.0	440.7	0.00	1.70	0.85	YES
L0008199	0	0.37320E-07	479894.0	3743251.7	440.7	0.00	1.70	0.85	YES
L0008200	0	0.37320E-07	479894.1	3743255.3	440.7	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0008201	0	0.37320E-07	479894.2	3743259.0	440.7	0.00	1.70	0.85	YES	
L0008202	0	0.37320E-07	479894.3	3743262.6	440.7	0.00	1.70	0.85	YES	
L0008203	0	0.37320E-07	479894.3	3743266.3	440.7	0.00	1.70	0.85	YES	
L0008204	0	0.37320E-07	479894.4	3743269.9	440.7	0.00	1.70	0.85	YES	
L0008205	0	0.37320E-07	479894.5	3743273.6	440.7	0.00	1.70	0.85	YES	
L0008206	0	0.37320E-07	479894.6	3743277.3	440.6	0.00	1.70	0.85	YES	
L0008207	0	0.37320E-07	479894.7	3743280.9	440.6	0.00	1.70	0.85	YES	
L0008208	0	0.37320E-07	479894.8	3743284.6	440.6	0.00	1.70	0.85	YES	
L0008209	0	0.37320E-07	479894.9	3743288.2	440.6	0.00	1.70	0.85	YES	
L0008210	0	0.37320E-07	479895.0	3743291.9	440.6	0.00	1.70	0.85	YES	
L0008211	0	0.37320E-07	479895.1	3743295.5	440.6	0.00	1.70	0.85	YES	
L0008212	0	0.37320E-07	479895.2	3743299.2	440.6	0.00	1.70	0.85	YES	
L0008213	0	0.37320E-07	479895.3	3743302.8	440.6	0.00	1.70	0.85	YES	

L0008214	0	0.37320E-07	479895.4	3743306.5	440.6	0.00	1.70	0.85	YES
L0008215	0	0.37320E-07	479895.5	3743310.2	440.5	0.00	1.70	0.85	YES
L0008216	0	0.37320E-07	479895.6	3743313.8	440.5	0.00	1.70	0.85	YES
L0008217	0	0.37320E-07	479895.7	3743317.5	440.5	0.00	1.70	0.85	YES
L0008218	0	0.37320E-07	479895.8	3743321.1	440.5	0.00	1.70	0.85	YES
L0008219	0	0.37320E-07	479895.9	3743324.8	440.5	0.00	1.70	0.85	YES
L0008220	0	0.37320E-07	479896.0	3743328.4	440.5	0.00	1.70	0.85	YES
L0008221	0	0.37320E-07	479896.0	3743332.1	440.4	0.00	1.70	0.85	YES
L0008222	0	0.37320E-07	479896.1	3743335.8	440.4	0.00	1.70	0.85	YES
L0008223	0	0.37320E-07	479897.1	3743339.3	440.4	0.00	1.70	0.85	YES
L0008224	0	0.37320E-07	479898.1	3743342.8	440.4	0.00	1.70	0.85	YES
L0008225	0	0.37320E-07	479899.1	3743346.3	440.4	0.00	1.70	0.85	YES
L0008226	0	0.37320E-07	479900.1	3743349.8	440.4	0.00	1.70	0.85	YES
L0008227	0	0.37320E-07	479901.1	3743353.3	440.3	0.00	1.70	0.85	YES
L0008228	0	0.37320E-07	479902.1	3743356.9	440.3	0.00	1.70	0.85	YES
L0008229	0	0.37320E-07	479903.1	3743360.4	440.3	0.00	1.70	0.85	YES
L0008230	0	0.37320E-07	479904.1	3743363.9	440.2	0.00	1.70	0.85	YES
L0008231	0	0.37320E-07	479904.1	3743367.6	440.2	0.00	1.70	0.85	YES
L0008232	0	0.37320E-07	479904.2	3743371.2	440.2	0.00	1.70	0.85	YES
L0008233	0	0.37320E-07	479904.3	3743374.9	440.2	0.00	1.70	0.85	YES
L0008234	0	0.37320E-07	479904.3	3743378.5	440.1	0.00	1.70	0.85	YES
L0008235	0	0.37320E-07	479904.4	3743382.2	440.1	0.00	1.70	0.85	YES
L0008236	0	0.37320E-07	479904.5	3743385.9	440.1	0.00	1.70	0.85	YES
L0008237	0	0.37320E-07	479904.5	3743389.5	440.0	0.00	1.70	0.85	YES
L0008238	0	0.37320E-07	479904.6	3743393.2	440.0	0.00	1.70	0.85	YES
L0008239	0	0.37320E-07	479904.6	3743396.8	440.0	0.00	1.70	0.85	YES
L0008240	0	0.37320E-07	479904.7	3743400.5	439.9	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 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 Y		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0008241	0	0.37320E-07	479904.8	3743404.1	439.9	0.00	1.70	0.85	YES	
L0008242	0	0.37320E-07	479904.8	3743407.8	439.9	0.00	1.70	0.85	YES	
L0008243	0	0.37320E-07	479904.9	3743411.5	439.9	0.00	1.70	0.85	YES	
L0008244	0	0.37320E-07	479904.9	3743415.1	439.9	0.00	1.70	0.85	YES	
L0008245	0	0.37320E-07	479905.0	3743418.8	439.9	0.00	1.70	0.85	YES	
L0008246	0	0.37320E-07	479905.1	3743422.4	439.9	0.00	1.70	0.85	YES	
L0008247	0	0.37320E-07	479905.1	3743426.1	439.9	0.00	1.70	0.85	YES	
L0008248	0	0.37320E-07	479905.2	3743429.7	439.8	0.00	1.70	0.85	YES	
L0008249	0	0.37320E-07	479905.2	3743433.4	439.8	0.00	1.70	0.85	YES	
L0008250	0	0.37320E-07	479905.3	3743437.1	439.8	0.00	1.70	0.85	YES	



L0008251	0	0.37320E-07	479905.4	3743440.7	439.9	0.00	1.70	0.85	YES
L0008252	0	0.37320E-07	479905.4	3743444.4	439.9	0.00	1.70	0.85	YES
L0008253	0	0.37320E-07	479905.5	3743448.0	439.9	0.00	1.70	0.85	YES
L0008254	0	0.37320E-07	479905.6	3743451.7	439.9	0.00	1.70	0.85	YES
L0008255	0	0.37320E-07	479905.6	3743455.3	439.9	0.00	1.70	0.85	YES
L0008256	0	0.37320E-07	479905.7	3743459.0	439.9	0.00	1.70	0.85	YES
L0008257	0	0.37320E-07	479905.7	3743462.7	439.9	0.00	1.70	0.85	YES
L0008258	0	0.37320E-07	479905.8	3743466.3	440.0	0.00	1.70	0.85	YES
L0008259	0	0.37320E-07	479905.9	3743470.0	439.9	0.00	1.70	0.85	YES
L0008260	0	0.37320E-07	479905.9	3743473.6	439.9	0.00	1.70	0.85	YES
L0008261	0	0.37320E-07	479906.0	3743477.3	439.9	0.00	1.70	0.85	YES
L0008262	0	0.37320E-07	479906.0	3743480.9	439.9	0.00	1.70	0.85	YES
L0008263	0	0.37320E-07	479906.1	3743484.6	439.9	0.00	1.70	0.85	YES
L0008264	0	0.37320E-07	479906.2	3743488.2	439.9	0.00	1.70	0.85	YES
L0008265	0	0.37320E-07	479906.2	3743491.9	439.9	0.00	1.70	0.85	YES
L0008266	0	0.37320E-07	479906.3	3743495.6	439.9	0.00	1.70	0.85	YES
L0008267	0	0.37320E-07	479906.4	3743499.2	439.9	0.00	1.70	0.85	YES
L0008268	0	0.37320E-07	479906.4	3743502.9	439.8	0.00	1.70	0.85	YES
L0008269	0	0.37320E-07	479906.5	3743506.5	439.8	0.00	1.70	0.85	YES
L0008270	0	0.37320E-07	479906.5	3743510.2	439.8	0.00	1.70	0.85	YES
L0008271	0	0.37320E-07	479906.6	3743513.8	439.8	0.00	1.70	0.85	YES
L0008272	0	0.37320E-07	479906.7	3743517.5	439.8	0.00	1.70	0.85	YES
L0008273	0	0.37320E-07	479906.7	3743521.2	439.8	0.00	1.70	0.85	YES
L0008274	0	0.37320E-07	479906.8	3743524.8	439.8	0.00	1.70	0.85	YES
L0008275	0	0.37320E-07	479906.8	3743528.5	439.8	0.00	1.70	0.85	YES
L0008276	0	0.37320E-07	479906.9	3743532.1	439.8	0.00	1.70	0.85	YES
L0008277	0	0.37320E-07	479907.0	3743535.8	439.8	0.00	1.70	0.85	YES
L0008278	0	0.37320E-07	479907.0	3743539.4	439.8	0.00	1.70	0.85	YES
L0008279	0	0.37320E-07	479907.1	3743543.1	439.8	0.00	1.70	0.85	YES
L0008280	0	0.37320E-07	479907.2	3743546.8	439.8	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
L0008281	0	0.37320E-07	479907.2	3743550.4	439.8	0.00	1.70	0.85	YES		
L0008282	0	0.37320E-07	479907.3	3743554.1	439.7	0.00	1.70	0.85	YES		
L0008283	0	0.37320E-07	479907.3	3743557.7	439.7	0.00	1.70	0.85	YES		
L0008284	0	0.37320E-07	479907.4	3743561.4	439.7	0.00	1.70	0.85	YES		
L0008285	0	0.37320E-07	479907.7	3743565.0	439.7	0.00	1.70	0.85	YES		

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs								
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ALL	L0007636	, L0007637	, L0007638	, L0007639	, L0007640	, L0007641	, L0007642	, L0007643	,
	L0007644	, L0007645	, L0007646	, L0007647	, L0007648	, L0007649	, L0007650	, L0007651	,
	L0007652	, L0007653	, L0007654	, L0007655	, L0007656	, L0007657	, L0007658	, L0007659	,
	L0007660	, L0007661	, L0007662	, L0007663	, L0007664	, L0007665	, L0007666	, L0007667	,
	L0007668	, L0007669	, L0007670	, L0007671	, L0007672	, L0007673	, L0007674	, L0007675	,
	L0007676	, L0007677	, L0007678	, L0007679	, L0007680	, L0007681	, L0007682	, L0007683	,
	L0007684	, L0007685	, L0007686	, L0007687	, L0007688	, L0007689	, L0007690	, L0007691	,
	L0007692	, L0007693	, L0007694	, L0007695	, L0007696	, L0007697	, L0007698	, L0007699	,
	L0007700	, L0007701	, L0007702	, L0007703	, L0007704	, L0007705	, L0007706	, L0007707	,
	L0007708	, L0007709	, L0007710	, L0007711	, L0007712	, L0007713	, L0007714	, L0007715	,
	L0007716	, L0007717	, L0007718	, L0007719	, L0007720	, L0007721	, L0007722	, L0007723	,
	L0007724	, L0007725	, L0007726	, L0007727	, L0007728	, L0007729	, L0007730	, L0007731	,
	L0007732	, L0007733	, L0007734	, L0007735	, L0007736	, L0007737	, L0007738	, L0007739	,
	L0007740	, L0007741	, L0007742	, L0007743	, L0007744	, L0007745	, L0007746	, L0007747	,
	L0007748	, L0007749	, L0007750	, L0007751	, L0007752	, L0007753	, L0007754	, L0007755	,
	L0007756	, L0007757	, L0007758	, L0007759	, L0007760	, L0007761	, L0007762	, L0007763	,
	L0007764	, L0007765	, L0007766	, L0007767	, L0007768	, L0007769	, L0007770	, L0007771	,
	L0007772	, L0007773	, L0007774	, L0007775	, L0007776	, L0007777	, L0007778	, L0007779	,
	L0007780	, L0007781	, L0007782	, L0007783	, L0007784	, L0007785	, L0007786	, L0007787	,
	L0007788	, L0007789	, L0007790	, L0007791	, L0007792	, L0007793	, L0007794	, L0007795	,

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\*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*

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\*\*\* MODELOPTs:    RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs														
-----	-----														
L0007796	,	L0007797	,	L0007798	,	L0007799	,	L0007800	,	L0007801	,	L0007802	,	L0007803	,
L0007804	,	L0007805	,	L0007806	,	L0007807	,	L0007808	,	L0007809	,	L0007810	,	L0007811	,
L0007812	,	L0007813	,	L0007814	,	L0007815	,	L0007816	,	L0007817	,	L0007818	,	L0007819	,
L0007820	,	L0007821	,	L0007822	,	L0007823	,	L0007824	,	L0007825	,	L0007826	,	L0007827	,
L0007828	,	L0007829	,	L0007830	,	L0007831	,	L0007832	,	L0007833	,	L0007834	,	L0007835	,
L0007836	,	L0007837	,	L0007838	,	L0007839	,	L0007840	,	L0007841	,	L0007842	,	L0007843	,
L0007844	,	L0007845	,	L0007846	,	L0007847	,	L0007848	,	L0007849	,	L0007850	,	L0007851	,
L0007852	,	L0007853	,	L0007854	,	L0008100	,	L0008101	,	L0008102	,	L0008103	,	L0008104	,
L0008105	,	L0008106	,	L0008107	,	L0008108	,	L0008109	,	L0008110	,	L0008111	,	L0008112	,
L0008113	,	L0008114	,	L0008115	,	L0008116	,	L0008117	,	L0008118	,	L0008119	,	L0008120	,
L0008121	,	L0008122	,	L0008123	,	L0008124	,	L0008125	,	L0008126	,	L0008127	,	L0008128	,
L0008129	,	L0008130	,	L0008131	,	L0008132	,	L0008133	,	L0008134	,	L0008135	,	L0008136	,
L0008137	,	L0008138	,	L0008139	,	L0008140	,	L0008141	,	L0008142	,	L0008143	,	L0008144	,
L0008145	,	L0008146	,	L0008147	,	L0008148	,	L0008149	,	L0008150	,	L0008151	,	L0008152	,
L0008153	,	L0008154	,	L0008155	,	L0008156	,	L0008157	,	L0008158	,	L0008159	,	L0008160	,
L0008161	,	L0008162	,	L0008163	,	L0008164	,	L0008165	,	L0008166	,	L0008167	,	L0008168	,
L0008169	,	L0008170	,	L0008171	,	L0008172	,	L0008173	,	L0008174	,	L0008175	,	L0008176	,
L0008177	,	L0008178	,	L0008179	,	L0008180	,	L0008181	,	L0008182	,	L0008183	,	L0008184	,
L0008185	,	L0008186	,	L0008187	,	L0008188	,	L0008189	,	L0008190	,	L0008191	,	L0008192	,
L0008193	,	L0008194	,	L0008195	,	L0008196	,	L0008197	,	L0008198	,	L0008199	,	L0008200	,

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*** AERMET - VERSION 16216 ***   *** 19370 DPM Concentrations - 2026-2039 ***   ***   23:45:31
                                                                                                     PAGE 16

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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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L0008201	,	L0008202	,	L0008203	,	L0008204	,	L0008205	,	L0008206	,	L0008207	,	L0008208	,
L0008209	,	L0008210	,	L0008211	,	L0008212	,	L0008213	,	L0008214	,	L0008215	,	L0008216	,
L0008217	,	L0008218	,	L0008219	,	L0008220	,	L0008221	,	L0008222	,	L0008223	,	L0008224	,
L0008225	,	L0008226	,	L0008227	,	L0008228	,	L0008229	,	L0008230	,	L0008231	,	L0008232	,
L0008233	,	L0008234	,	L0008235	,	L0008236	,	L0008237	,	L0008238	,	L0008239	,	L0008240	,
L0008241	,	L0008242	,	L0008243	,	L0008244	,	L0008245	,	L0008246	,	L0008247	,	L0008248	,
L0008249	,	L0008250	,	L0008251	,	L0008252	,	L0008253	,	L0008254	,	L0008255	,	L0008256	,
L0008257	,	L0008258	,	L0008259	,	L0008260	,	L0008261	,	L0008262	,	L0008263	,	L0008264	,
L0008265	,	L0008266	,	L0008267	,	L0008268	,	L0008269	,	L0008270	,	L0008271	,	L0008272	,
L0008273	,	L0008274	,	L0008275	,	L0008276	,	L0008277	,	L0008278	,	L0008279	,	L0008280	,
L0008281	,	L0008282	,	L0008283	,	L0008284	,	L0008285	,	STCK1	,	STCK2	,	STCK3	,
STCK4	,	STCK5	,	STCK6	,										

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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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L0007643	2189641.	L0007636	,	L0007637	,	L0007638	,	L0007639	,	L0007640	,	L0007641	,	L0007642	,

L0007644 , L0007645 , L0007646 , L0007647 , L0007648 , L0007649 , L0007650 , L0007651 ,  
L0007652 , L0007653 , L0007654 , L0007655 , L0007656 , L0007657 , L0007658 , L0007659 ,  
L0007660 , L0007661 , L0007662 , L0007663 , L0007664 , L0007665 , L0007666 , L0007667 ,  
L0007668 , L0007669 , L0007670 , L0007671 , L0007672 , L0007673 , L0007674 , L0007675 ,  
L0007676 , L0007677 , L0007678 , L0007679 , L0007680 , L0007681 , L0007682 , L0007683 ,  
L0007684 , L0007685 , L0007686 , L0007687 , L0007688 , L0007689 , L0007690 , L0007691 ,  
L0007692 , L0007693 , L0007694 , L0007695 , L0007696 , L0007697 , L0007698 , L0007699 ,  
L0007700 , L0007701 , L0007702 , L0007703 , L0007704 , L0007705 , L0007706 , L0007707 ,  
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L0007740 , L0007741 , L0007742 , L0007743 , L0007744 , L0007745 , L0007746 , L0007747 ,  
L0007748 , L0007749 , L0007750 , L0007751 , L0007752 , L0007753 , L0007754 , L0007755 ,  
L0007756 , L0007757 , L0007758 , L0007759 , L0007760 , L0007761 , L0007762 , L0007763 ,  
L0007764 , L0007765 , L0007766 , L0007767 , L0007768 , L0007769 , L0007770 , L0007771 ,  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\* PAGE 18

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID      URBAN POP                      SOURCE IDs  
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L0007796 , L0007797 , L0007798 , L0007799 , L0007800 , L0007801 , L0007802 , L0007803 ,  
 L0007804 , L0007805 , L0007806 , L0007807 , L0007808 , L0007809 , L0007810 , L0007811 ,  
 L0007812 , L0007813 , L0007814 , L0007815 , L0007816 , L0007817 , L0007818 , L0007819 ,  
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 L0008161 , L0008162 , L0008163 , L0008164 , L0008165 , L0008166 , L0008167 , L0008168 ,  
 L0008169 , L0008170 , L0008171 , L0008172 , L0008173 , L0008174 , L0008175 , L0008176 ,  
 L0008177 , L0008178 , L0008179 , L0008180 , L0008181 , L0008182 , L0008183 , L0008184 ,  
 L0008185 , L0008186 , L0008187 , L0008188 , L0008189 , L0008190 , L0008191 , L0008192 ,  
 L0008193 , L0008194 , L0008195 , L0008196 , L0008197 , L0008198 , L0008199 , L0008200 ,

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31  
 \*\*\* MODELOPTs:    RegDEFAULT CONC ELEV URBAN ADJ\_U\*      PAGE 19

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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L0008201 , L0008202 , L0008203 , L0008204 , L0008205 , L0008206 , L0008207 , L0008208 ,  
 L0008209 , L0008210 , L0008211 , L0008212 , L0008213 , L0008214 , L0008215 , L0008216 ,  
 L0008217 , L0008218 , L0008219 , L0008220 , L0008221 , L0008222 , L0008223 , L0008224 ,  
 L0008225 , L0008226 , L0008227 , L0008228 , L0008229 , L0008230 , L0008231 , L0008232 ,  
 L0008233 , L0008234 , L0008235 , L0008236 , L0008237 , L0008238 , L0008239 , L0008240 ,  
 L0008241 , L0008242 , L0008243 , L0008244 , L0008245 , L0008246 , L0008247 , L0008248 ,  
 L0008249 , L0008250 , L0008251 , L0008252 , L0008253 , L0008254 , L0008255 , L0008256 ,  
 L0008257 , L0008258 , L0008259 , L0008260 , L0008261 , L0008262 , L0008263 , L0008264 ,  
 L0008265 , L0008266 , L0008267 , L0008268 , L0008269 , L0008270 , L0008271 , L0008272 ,  
 L0008273 , L0008274 , L0008275 , L0008276 , L0008277 , L0008278 , L0008279 , L0008280 ,  
 L0008281 , L0008282 , L0008283 , L0008284 , L0008285 , STCK1 , STCK2 , STCK3 ,  
 STCK4 , STCK5 , STCK6 ,

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*    08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*    23:45:31  
 \*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*    PAGE 20

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-14.3,	47.4,	2	14.0,	247.0,	219.2,	-35.2,	58.2,
3	14.0,	258.3,	236.8,	-55.0,	67.2,	4	14.0,	261.7,	247.2,	-73.2,	74.2,
5	14.0,	257.2,	250.1,	-89.1,	78.9,	6	14.0,	244.9,	246.2,	-103.1,	81.2,
7	14.0,	225.2,	238.8,	-117.9,	81.1,	8	14.0,	198.6,	224.0,	-129.1,	78.5,
9	14.0,	186.4,	205.0,	-136.4,	81.2,	10	14.0,	195.0,	228.2,	-161.5,	83.2,
11	14.0,	219.2,	247.0,	-181.7,	74.4,	12	14.0,	236.8,	258.3,	-196.3,	63.4,
13	14.0,	247.2,	261.7,	-205.0,	50.5,	14	14.0,	250.1,	257.2,	-207.5,	36.0,
15	14.0,	246.2,	244.9,	-203.7,	20.0,	16	14.0,	238.8,	225.2,	-193.7,	1.5,
17	14.0,	224.0,	198.6,	-177.8,	-17.1,	18	14.0,	205.0,	186.4,	-174.4,	-33.9,
19	14.0,	228.2,	195.0,	-180.7,	-47.4,	20	14.0,	247.0,	219.2,	-184.0,	-58.2,
21	14.0,	258.3,	236.8,	-181.8,	-67.2,	22	14.0,	261.7,	247.2,	-174.1,	-74.2,
23	14.0,	257.2,	250.1,	-161.0,	-78.9,	24	14.0,	244.9,	246.2,	-143.1,	-81.2,
25	14.0,	225.2,	238.8,	-120.8,	-81.1,	26	14.0,	198.6,	224.0,	-94.9,	-78.5,
27	14.0,	186.4,	205.0,	-68.6,	-81.2,	28	14.0,	195.0,	228.2,	-66.7,	-83.2,
29	14.0,	219.2,	247.0,	-65.3,	-74.4,	30	14.0,	236.8,	258.3,	-61.9,	-63.4,
31	14.0,	247.2,	261.7,	-56.7,	-50.5,	32	14.0,	250.1,	257.2,	-49.7,	-36.0,

33	14.0,	246.2,	244.9,	-41.2,	-20.0,	34	14.0,	238.8,	225.2,	-31.5,	-1.5,
35	14.0,	224.0,	198.6,	-20.8,	17.1,	36	14.0,	205.0,	186.4,	-12.0,	33.9,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-3.1,	-18.5,	2	14.0,	247.0,	219.2,	-12.8,	-4.8,
3	14.0,	258.3,	236.8,	-22.0,	9.1,	4	14.0,	261.7,	247.2,	-30.5,	22.7,
5	14.0,	257.2,	250.1,	-38.1,	35.6,	6	14.0,	244.9,	246.2,	-45.4,	47.4,
7	14.0,	225.2,	238.8,	-55.2,	57.8,	8	14.0,	198.6,	224.0,	-63.3,	66.5,
9	14.0,	186.4,	205.0,	-69.5,	80.7,	10	14.0,	195.0,	228.2,	-95.6,	94.3,
11	14.0,	219.2,	247.0,	-118.7,	96.9,	12	14.0,	236.8,	258.3,	-138.2,	96.5,
13	14.0,	247.2,	261.7,	-153.5,	93.1,	14	14.0,	250.1,	257.2,	-164.2,	86.9,
15	14.0,	246.2,	244.9,	-169.9,	77.7,	16	14.0,	238.8,	225.2,	-170.4,	64.2,
17	14.0,	224.0,	198.6,	-165.7,	48.7,	18	14.0,	205.0,	186.4,	-173.9,	33.0,
19	14.0,	228.2,	195.0,	-191.8,	18.5,	20	14.0,	247.0,	219.2,	-206.5,	4.8,
21	14.0,	258.3,	236.8,	-214.9,	-9.1,	22	14.0,	261.7,	247.2,	-216.7,	-22.7,
23	14.0,	257.2,	250.1,	-212.0,	-35.6,	24	14.0,	244.9,	246.2,	-200.8,	-47.4,
25	14.0,	225.2,	238.8,	-183.5,	-57.8,	26	14.0,	198.6,	224.0,	-160.7,	-66.5,
27	14.0,	186.4,	205.0,	-135.5,	-80.7,	28	14.0,	195.0,	228.2,	-132.6,	-94.3,
29	14.0,	219.2,	247.0,	-128.3,	-96.9,	30	14.0,	236.8,	258.3,	-120.1,	-96.5,
31	14.0,	247.2,	261.7,	-108.2,	-93.1,	32	14.0,	250.1,	257.2,	-93.0,	-86.9,
33	14.0,	246.2,	244.9,	-75.0,	-77.7,	34	14.0,	238.8,	225.2,	-54.8,	-64.2,
35	14.0,	224.0,	198.6,	-32.8,	-48.7,	36	14.0,	205.0,	186.4,	-12.5,	-33.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	22.6,	18.9,	2	14.0,	247.0,	219.2,	6.1,	36.5,
3	14.0,	258.3,	236.8,	-10.6,	53.0,	4	14.0,	261.7,	247.2,	-27.0,	67.9,
5	14.0,	257.2,	250.1,	-42.5,	80.8,	6	14.0,	244.9,	246.2,	-57.6,	91.2,
7	14.0,	225.2,	238.8,	-74.8,	98.8,	8	14.0,	198.6,	224.0,	-89.7,	103.4,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	14.0,	219.2,	247.0,	-160.0,	115.7,	12	14.0,	236.8,	258.3,	-182.2,	107.8,
13	14.0,	247.2,	261.7,	-198.8,	96.6,	14	14.0,	250.1,	257.2,	-209.4,	82.6,
15	14.0,	246.2,	244.9,	-213.6,	65.5,	16	14.0,	238.8,	225.2,	-211.4,	44.6,
17	14.0,	224.0,	198.6,	-202.7,	22.3,	18	14.0,	205.0,	186.4,	-205.7,	0.6,
19	14.0,	228.2,	195.0,	-217.5,	-18.9,	20	14.0,	247.0,	219.2,	-225.3,	-36.5,
21	14.0,	258.3,	236.8,	-226.2,	-53.0,	22	14.0,	261.7,	247.2,	-220.3,	-67.9,
23	14.0,	257.2,	250.1,	-207.6,	-80.8,	24	14.0,	244.9,	246.2,	-188.7,	-91.2,
25	14.0,	225.2,	238.8,	-164.0,	-98.8,	26	14.0,	198.6,	224.0,	-134.3,	-103.4,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	14.0,	219.2,	247.0,	-87.0,	-115.7,	30	14.0,	236.8,	258.3,	-76.1,	-107.8,
31	14.0,	247.2,	261.7,	-62.9,	-96.6,	32	14.0,	250.1,	257.2,	-47.8,	-82.6,
33	14.0,	246.2,	244.9,	-31.3,	-65.5,	34	14.0,	238.8,	225.2,	-13.8,	-44.6,
35	14.0,	224.0,	198.6,	4.1,	-22.3,	36	14.0,	205.0,	186.4,	19.4,	-0.6,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-174.0,	17.4,	2	14.0,	247.0,	219.2,	-187.2,	1.0,



3	14.0,	258.3,	236.8,	-194.8,	-15.5,	4	14.0,	261.7,	247.2,	-196.4,	-31.6,
5	14.0,	257.2,	250.1,	-192.1,	-46.6,	6	14.0,	244.9,	246.2,	-182.8,	-60.3,
7	14.0,	225.2,	238.8,	-171.8,	-72.1,	8	14.0,	198.6,	224.0,	-155.6,	-81.8,
9	14.0,	186.4,	205.0,	-134.6,	-81.2,	10	14.0,	195.0,	228.2,	-131.6,	-76.5,
11	14.0,	219.2,	247.0,	-124.5,	-77.6,	12	14.0,	236.8,	258.3,	-113.6,	-76.4,
13	14.0,	247.2,	261.7,	-99.3,	-72.8,	14	14.0,	250.1,	257.2,	-82.0,	-67.1,
15	14.0,	246.2,	244.9,	-62.1,	-59.7,	16	14.0,	238.8,	225.2,	-40.4,	-52.4,
17	14.0,	224.0,	198.6,	-17.5,	-43.6,	18	14.0,	205.0,	186.4,	-11.9,	-32.1,
19	14.0,	228.2,	195.0,	-21.0,	-17.4,	20	14.0,	247.0,	219.2,	-32.0,	-1.0,
21	14.0,	258.3,	236.8,	-42.0,	15.5,	22	14.0,	261.7,	247.2,	-50.8,	31.6,
23	14.0,	257.2,	250.1,	-58.0,	46.6,	24	14.0,	244.9,	246.2,	-63.4,	60.3,
25	14.0,	225.2,	238.8,	-67.0,	72.1,	26	14.0,	198.6,	224.0,	-68.4,	81.8,
27	14.0,	186.4,	205.0,	-70.4,	81.2,	28	14.0,	195.0,	228.2,	-96.6,	76.5,
29	14.0,	219.2,	247.0,	-122.5,	77.6,	30	14.0,	236.8,	258.3,	-144.7,	76.4,
31	14.0,	247.2,	261.7,	-162.4,	72.8,	32	14.0,	250.1,	257.2,	-175.3,	67.1,
33	14.0,	246.2,	244.9,	-182.8,	59.7,	34	14.0,	238.8,	225.2,	-184.7,	52.4,
35	14.0,	224.0,	198.6,	-181.0,	43.6,	36	14.0,	205.0,	186.4,	-174.4,	32.1,

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-160.9,	-75.1,	2	14.0,	247.0,	219.2,	-158.2,	-87.9,
3	14.0,	258.3,	236.8,	-150.8,	-98.0,	4	14.0,	261.7,	247.2,	-138.8,	-105.2,
5	14.0,	257.2,	250.1,	-122.6,	-109.1,	6	14.0,	244.9,	246.2,	-103.5,	-109.8,
7	14.0,	225.2,	238.8,	-85.1,	-107.1,	8	14.0,	198.6,	224.0,	-64.1,	-101.1,
9	14.0,	186.4,	205.0,	-41.2,	-84.4,	10	14.0,	195.0,	228.2,	-39.0,	-63.4,
11	14.0,	219.2,	247.0,	-35.6,	-48.6,	12	14.0,	236.8,	258.3,	-31.1,	-32.4,
13	14.0,	247.2,	261.7,	-25.7,	-15.2,	14	14.0,	250.1,	257.2,	-19.5,	2.5,
15	14.0,	246.2,	244.9,	-12.7,	19.7,	16	14.0,	238.8,	225.2,	-5.5,	34.3,
17	14.0,	224.0,	198.6,	1.8,	47.9,	18	14.0,	205.0,	186.4,	-8.8,	61.3,
19	14.0,	228.2,	195.0,	-34.1,	75.1,	20	14.0,	247.0,	219.2,	-61.0,	87.9,
21	14.0,	258.3,	236.8,	-86.0,	98.0,	22	14.0,	261.7,	247.2,	-108.4,	105.2,
23	14.0,	257.2,	250.1,	-127.5,	109.1,	24	14.0,	244.9,	246.2,	-142.8,	109.8,
25	14.0,	225.2,	238.8,	-153.7,	107.1,	26	14.0,	198.6,	224.0,	-159.9,	101.1,
27	14.0,	186.4,	205.0,	-163.8,	84.4,	28	14.0,	195.0,	228.2,	-189.2,	63.4,
29	14.0,	219.2,	247.0,	-211.4,	48.6,	30	14.0,	236.8,	258.3,	-227.2,	32.4,
31	14.0,	247.2,	261.7,	-236.1,	15.2,	32	14.0,	250.1,	257.2,	-237.7,	-2.5,
33	14.0,	246.2,	244.9,	-232.2,	-19.7,	34	14.0,	238.8,	225.2,	-219.6,	-34.3,
35	14.0,	224.0,	198.6,	-200.4,	-47.9,	36	14.0,	205.0,	186.4,	-177.6,	-61.3,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
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1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	0.0,	0.0,	0.0,	0.0,	0.0,	12	0.0,	0.0,	0.0,	0.0,	0.0,
13	0.0,	0.0,	0.0,	0.0,	0.0,	14	0.0,	0.0,	0.0,	0.0,	0.0,
15	0.0,	0.0,	0.0,	0.0,	0.0,	16	0.0,	0.0,	0.0,	0.0,	0.0,
17	0.0,	0.0,	0.0,	0.0,	0.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	14.0,	186.4,	205.0,	-256.0,	96.5,	28	14.0,	195.0,	228.2,	-282.1,	59.2,
29	14.0,	219.2,	247.0,	-302.2,	28.4,	30	14.0,	236.8,	258.3,	-313.1,	-3.2,
31	14.0,	247.2,	261.7,	-314.4,	-34.8,	32	14.0,	250.1,	257.2,	-306.2,	-65.3,
33	14.0,	246.2,	244.9,	-288.8,	-93.5,	34	14.0,	238.8,	225.2,	-262.5,	-116.8,
35	0.0,	0.0,	0.0,	0.0,	0.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/16/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2026-2039 ***      23:45:31
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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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*** NETWORK ID: UCART1   ;   NETWORK TYPE: GRIDCART ***

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*** X-COORDINATES OF GRID ***
(METERS)

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479016.1, 479088.4, 479160.7, 479233.0, 479305.3, 479377.6, 479449.9, 479522.2, 479594.5, 479666.8,
479739.1, 479811.4, 479883.7, 479956.0, 480028.3, 480100.6, 480172.9, 480245.2, 480317.5, 480389.8,
480462.1,

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*** Y-COORDINATES OF GRID ***
(METERS)

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3742296.2, 3742363.9, 3742431.5, 3742499.2, 3742566.8, 3742634.5, 3742702.1, 3742769.8, 3742837.5, 3742905.1,
3742972.8, 3743040.4, 3743108.1, 3743175.8, 3743243.4, 3743311.1, 3743378.8, 3743446.4, 3743514.1, 3743581.7,
3743649.4,

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/16/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2026-2039 ***      23:45:31
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*** MODELOPTs:   RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** NETWORK ID: UCART1   ;   NETWORK TYPE: GRIDCART ***

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* ELEVATION HEIGHTS IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)								
	479016.09	479088.39	479160.69	479232.99	479305.29	479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	440.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* NETWORK ID: UCART1    ;    NETWORK TYPE: GRIDCART \*\*\*

\* ELEVATION HEIGHTS IN METERS \*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40
3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30

3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/16/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2026-2039 ***      ***      23:45:31
                                                                                                     PAGE 25

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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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* ELEVATION HEIGHTS IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)		
	480317.49	480389.79	480462.09
-----			
3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

```

*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/16/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2026-2039 ***      ***      23:45:31
                                                                                                     PAGE 26

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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)	479016.09	479088.39	479160.69	479232.99	479305.29	479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	441.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
\*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31  
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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)	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40

3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30
3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

\*\*\* AERMOT - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31  
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\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* NETWORK ID: UCART1    ;    NETWORK TYPE: GRIDCART \*\*\*

\* HILL HEIGHT SCALES IN METERS \*

Y-COORD (METERS)	X-COORD (METERS)		
	480317.49	480389.79	480462.09
3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

\*\*\* AERMOT - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31



(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/16/21
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.SFC Met Version: 16216
Profile file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

Table with 18 columns: 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. It contains 24 rows of meteorological data for the first 24 hours of the year 2010.

First hour of profile data

Table with 11 columns: YR MO DY HR, HEIGHT, F, WDIR, WSPD, AMB\_TMP, sigmaA, sigmaW, sigmaV. It contains one row of profile data for the first hour of the year 2010.



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 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/16/21
\*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\* 23:45:31
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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): L0007636 , L0007637 , L0007638 , L0007639 , L0007640 ,
L0007641 , L0007642 , L0007643 , L0007644 , L0007645 , L0007646 , L0007647 , L0007648 ,
L0007649 , L0007650 , L0007651 , L0007652 , L0007653 , L0007654 , L0007655 , L0007656 ,
L0007657 , L0007658 , L0007659 , L0007660 , L0007661 , L0007662 , L0007663 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Table with 10 columns: Y-COORD (METERS), X-COORD (METERS), and 8 columns of concentration values. The table lists data for various Y and X coordinates, with concentration values ranging from 0.00012 to 0.00052.

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/16/21
\*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\* 23:45:31
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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): L0007636 , L0007637 , L0007638 , L0007639 , L0007640 ,  
 L0007641 , L0007642 , L0007643 , L0007644 , L0007645 , L0007646 , L0007647 , L0007648 ,  
 L0007649 , L0007650 , L0007651 , L0007652 , L0007653 , L0007654 , L0007655 , L0007656 ,  
 L0007657 , L0007658 , L0007659 , L0007660 , L0007661 , L0007662 , L0007663 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	0.00053	0.00052	0.00052	0.00051	0.00047	0.00040	0.00034	0.00028	0.00024
3743581.73	0.00065	0.00064	0.00065	0.00082	0.00065	0.00048	0.00039	0.00032	0.00026
3743514.07	0.00079	0.00078	0.00082	0.00145	0.00090	0.00057	0.00044	0.00035	0.00029
3743446.41	0.00096	0.00095	0.00098	0.00168	0.00105	0.00065	0.00049	0.00039	0.00031
3743378.75	0.00118	0.00117	0.00117	0.00191	0.00114	0.00072	0.00054	0.00042	0.00033
3743311.09	0.00147	0.00147	0.00140	0.00276	0.00119	0.00077	0.00057	0.00044	0.00035
3743243.43	0.00188	0.00194	0.00171	0.00321	0.00124	0.00081	0.00059	0.00046	0.00036
3743175.77	0.00258	0.00304	0.00237	0.00379	0.00127	0.00082	0.00060	0.00047	0.00037
3743108.11	0.00367	0.00358	0.00347	0.00487	0.00127	0.00082	0.00061	0.00047	0.00038
3743040.45	0.00300	0.00309	0.00248	0.00298	0.00131	0.00081	0.00061	0.00047	0.00038
3742972.79	0.00269	0.00310	0.00235	0.00286	0.00132	0.00081	0.00060	0.00047	0.00038
3742905.13	0.00354	0.00347	0.00278	0.00341	0.00127	0.00081	0.00060	0.00047	0.00037
3742837.47	0.00206	0.00313	0.00318	0.00200	0.00121	0.00082	0.00060	0.00047	0.00037
3742769.81	0.00125	0.00178	0.00213	0.00173	0.00120	0.00084	0.00062	0.00047	0.00037
3742702.15	0.00091	0.00118	0.00149	0.00146	0.00114	0.00085	0.00063	0.00048	0.00038
3742634.49	0.00071	0.00087	0.00109	0.00117	0.00103	0.00081	0.00062	0.00048	0.00038
3742566.83	0.00058	0.00069	0.00081	0.00092	0.00088	0.00075	0.00060	0.00047	0.00037
3742499.17	0.00048	0.00056	0.00066	0.00073	0.00074	0.00066	0.00055	0.00044	0.00036
3742431.51	0.00040	0.00046	0.00053	0.00059	0.00061	0.00057	0.00050	0.00041	0.00034
3742363.85	0.00034	0.00038	0.00043	0.00048	0.00050	0.00048	0.00043	0.00037	0.00031
3742296.19	0.00029	0.00032	0.00036	0.00039	0.00041	0.00040	0.00037	0.00033	0.00028

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31  
 \*\*\* MODELOPTs:      RegDFAULT      CONC      ELEV      URBAN      ADJ\_U\*      PAGE 35

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0007636 , L0007637 , L0007638 , L0007639 , L0007640 ,  
 L0007641 , L0007642 , L0007643 , L0007644 , L0007645 , L0007646 , L0007647 , L0007648 ,  
 L0007649 , L0007650 , L0007651 , L0007652 , L0007653 , L0007654 , L0007655 , L0007656 ,  
 L0007657 , L0007658 , L0007659 , L0007660 , L0007661 , L0007662 , L0007663 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD | X-COORD (METERS)

(METERS)	480317.49	480389.79	480462.09
3743649.39	0.00020	0.00017	0.00014
3743581.73	0.00022	0.00018	0.00016
3743514.07	0.00024	0.00020	0.00017
3743446.41	0.00025	0.00021	0.00018
3743378.75	0.00027	0.00022	0.00019
3743311.09	0.00028	0.00023	0.00019
3743243.43	0.00029	0.00024	0.00020
3743175.77	0.00030	0.00025	0.00020
3743108.11	0.00031	0.00025	0.00021
3743040.45	0.00031	0.00025	0.00021
3742972.79	0.00031	0.00025	0.00021
3742905.13	0.00030	0.00025	0.00021
3742837.47	0.00030	0.00025	0.00021
3742769.81	0.00030	0.00025	0.00020
3742702.15	0.00030	0.00024	0.00020
3742634.49	0.00030	0.00024	0.00020
3742566.83	0.00030	0.00024	0.00020
3742499.17	0.00029	0.00023	0.00019
3742431.51	0.00027	0.00022	0.00019
3742363.85	0.00026	0.00021	0.00018
3742296.19	0.00024	0.00020	0.00017

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31  
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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):    L0007636    ,    L0007637    ,    L0007638    ,    L0007639    ,    L0007640    ,  
 L0007641    ,    L0007642    ,    L0007643    ,    L0007644    ,    L0007645    ,    L0007646    ,    L0007647    ,    L0007648    ,  
 L0007649    ,    L0007650    ,    L0007651    ,    L0007652    ,    L0007653    ,    L0007654    ,    L0007655    ,    L0007656    ,  
 L0007657    ,    L0007658    ,    L0007659    ,    L0007660    ,    L0007661    ,    L0007662    ,    L0007663    ,    . . .    ,

\*\*\* 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	
479517.63	3743087.52	0.00153	479625.84	3742903.49	0.00232	
479747.94	3742702.04	0.00123	479941.63	3742746.07	0.00127	
480129.11	3743129.41	0.00055	480038.90	3743313.86	0.00073	
479770.81	3743365.76	0.00120				

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/16/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2026-2039 \*\*\*      23:45:31  
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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	0.00487 AT ( 479883.69, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00379 AT ( 479883.69, 3743175.77, 440.90, 440.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00367 AT ( 479666.79, 3743108.11, 440.90, 440.90, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00358 AT ( 479739.09, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00354 AT ( 479666.79, 3742905.13, 441.10, 441.10, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00347 AT ( 479739.09, 3742905.13, 440.90, 440.90, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00347 AT ( 479811.39, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00341 AT ( 479883.69, 3742905.13, 440.50, 440.50, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00334 AT ( 479594.49, 3743040.45, 441.50, 441.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00321 AT ( 479883.69, 3743243.43, 440.80, 440.80, 0.00)	GC	UCART1

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\* 19370 DPM Concentrations - 2026-2039 \*\*\*

08/16/21  
 23:45:31  
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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 10 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 946 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 947 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 948 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 949 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 950 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 951 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 1189 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 1189 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

```

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*****
*** AERMOD Finishes Successfully ***
*****

```

```

** 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\19370 Redlands Avenue West 2040-53\19370 Redlands Avenue West 2040-53.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria
TITLETWO 19370 DPM Concentrations - 2040-2053
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19370 Redlands Avenue West 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 Onsite from southern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 3.14E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 11
** 479886.890, 3742886.073, 440.50, 0.00, 1.70
** 479818.066, 3742886.064, 440.61, 0.00, 1.70

```

\*\* 479767.787, 3742891.223, 440.85, 0.00, 1.70  
 \*\* 479705.988, 3742891.905, 441.01, 0.00, 1.70  
 \*\* 479678.715, 3742890.836, 441.09, 0.00, 1.70  
 \*\* 479665.980, 3742896.710, 441.18, 0.00, 1.70  
 \*\* 479633.961, 3742950.034, 441.20, 0.00, 1.70  
 \*\* 479618.374, 3742985.797, 441.39, 0.00, 1.70  
 \*\* 479638.678, 3742985.699, 441.24, 0.00, 1.70  
 \*\* 479638.938, 3743042.012, 441.34, 0.00, 1.70  
 \*\* 479581.598, 3743042.415, 441.62, 0.00, 1.70

\*\* -----  
 LOCATION L0008286      VOLUME    479885.061 3742886.073 440.49  
 LOCATION L0008287      VOLUME    479881.404 3742886.072 440.48  
 LOCATION L0008288      VOLUME    479877.746 3742886.072 440.46  
 LOCATION L0008289      VOLUME    479874.088 3742886.071 440.45  
 LOCATION L0008290      VOLUME    479870.431 3742886.071 440.43  
 LOCATION L0008291      VOLUME    479866.773 3742886.070 440.42  
 LOCATION L0008292      VOLUME    479863.116 3742886.070 440.40  
 LOCATION L0008293      VOLUME    479859.458 3742886.069 440.40  
 LOCATION L0008294      VOLUME    479855.800 3742886.069 440.41  
 LOCATION L0008295      VOLUME    479852.143 3742886.068 440.42  
 LOCATION L0008296      VOLUME    479848.485 3742886.068 440.43  
 LOCATION L0008297      VOLUME    479844.828 3742886.068 440.45  
 LOCATION L0008298      VOLUME    479841.170 3742886.067 440.46  
 LOCATION L0008299      VOLUME    479837.512 3742886.067 440.47  
 LOCATION L0008300      VOLUME    479833.855 3742886.066 440.49  
 LOCATION L0008301      VOLUME    479830.197 3742886.066 440.51  
 LOCATION L0008302      VOLUME    479826.540 3742886.065 440.54  
 LOCATION L0008303      VOLUME    479822.882 3742886.065 440.56  
 LOCATION L0008304      VOLUME    479819.224 3742886.064 440.58  
 LOCATION L0008305      VOLUME    479815.580 3742886.319 440.61  
 LOCATION L0008306      VOLUME    479811.941 3742886.692 440.63  
 LOCATION L0008307      VOLUME    479808.303 3742887.066 440.65  
 LOCATION L0008308      VOLUME    479804.664 3742887.439 440.67  
 LOCATION L0008309      VOLUME    479801.026 3742887.812 440.68  
 LOCATION L0008310      VOLUME    479797.387 3742888.186 440.70  
 LOCATION L0008311      VOLUME    479793.749 3742888.559 440.72  
 LOCATION L0008312      VOLUME    479790.110 3742888.932 440.73  
 LOCATION L0008313      VOLUME    479786.472 3742889.306 440.75  
 LOCATION L0008314      VOLUME    479782.833 3742889.679 440.76  
 LOCATION L0008315      VOLUME    479779.195 3742890.052 440.78  
 LOCATION L0008316      VOLUME    479775.556 3742890.426 440.79  
 LOCATION L0008317      VOLUME    479771.918 3742890.799 440.80  
 LOCATION L0008318      VOLUME    479768.279 3742891.172 440.81  
 LOCATION L0008319      VOLUME    479764.624 3742891.258 440.82  
 LOCATION L0008320      VOLUME    479760.967 3742891.298 440.84  
 LOCATION L0008321      VOLUME    479757.310 3742891.339 440.85  
 LOCATION L0008322      VOLUME    479753.652 3742891.379 440.86  
 LOCATION L0008323      VOLUME    479749.995 3742891.419 440.87  
 LOCATION L0008324      VOLUME    479746.338 3742891.460 440.89  
 LOCATION L0008325      VOLUME    479742.680 3742891.500 440.90  
 LOCATION L0008326      VOLUME    479739.023 3742891.540 440.91

LOCATION	L0008327	VOLUME	479735.365	3742891.581	440.92
LOCATION	L0008328	VOLUME	479731.708	3742891.621	440.94
LOCATION	L0008329	VOLUME	479728.051	3742891.662	440.95
LOCATION	L0008330	VOLUME	479724.393	3742891.702	440.96
LOCATION	L0008331	VOLUME	479720.736	3742891.742	440.97
LOCATION	L0008332	VOLUME	479717.079	3742891.783	440.98
LOCATION	L0008333	VOLUME	479713.421	3742891.823	440.99
LOCATION	L0008334	VOLUME	479709.764	3742891.864	441.00
LOCATION	L0008335	VOLUME	479706.106	3742891.904	441.01
LOCATION	L0008336	VOLUME	479702.452	3742891.767	441.02
LOCATION	L0008337	VOLUME	479698.797	3742891.623	441.03
LOCATION	L0008338	VOLUME	479695.142	3742891.480	441.04
LOCATION	L0008339	VOLUME	479691.487	3742891.337	441.06
LOCATION	L0008340	VOLUME	479687.832	3742891.194	441.07
LOCATION	L0008341	VOLUME	479684.178	3742891.050	441.08
LOCATION	L0008342	VOLUME	479680.523	3742890.907	441.09
LOCATION	L0008343	VOLUME	479677.037	3742891.611	441.11
LOCATION	L0008344	VOLUME	479673.715	3742893.142	441.12
LOCATION	L0008345	VOLUME	479670.394	3742894.674	441.13
LOCATION	L0008346	VOLUME	479667.072	3742896.206	441.14
LOCATION	L0008347	VOLUME	479664.716	3742898.814	441.15
LOCATION	L0008348	VOLUME	479662.833	3742901.950	441.16
LOCATION	L0008349	VOLUME	479660.951	3742905.086	441.16
LOCATION	L0008350	VOLUME	479659.068	3742908.221	441.17
LOCATION	L0008351	VOLUME	479657.185	3742911.357	441.17
LOCATION	L0008352	VOLUME	479655.302	3742914.493	441.17
LOCATION	L0008353	VOLUME	479653.419	3742917.629	441.17
LOCATION	L0008354	VOLUME	479651.536	3742920.764	441.17
LOCATION	L0008355	VOLUME	479649.653	3742923.900	441.18
LOCATION	L0008356	VOLUME	479647.770	3742927.036	441.18
LOCATION	L0008357	VOLUME	479645.887	3742930.171	441.18
LOCATION	L0008358	VOLUME	479644.004	3742933.307	441.17
LOCATION	L0008359	VOLUME	479642.122	3742936.443	441.17
LOCATION	L0008360	VOLUME	479640.239	3742939.579	441.17
LOCATION	L0008361	VOLUME	479638.356	3742942.714	441.17
LOCATION	L0008362	VOLUME	479636.473	3742945.850	441.17
LOCATION	L0008363	VOLUME	479634.590	3742948.986	441.18
LOCATION	L0008364	VOLUME	479632.988	3742952.266	441.19
LOCATION	L0008365	VOLUME	479631.526	3742955.619	441.20
LOCATION	L0008366	VOLUME	479630.065	3742958.972	441.20
LOCATION	L0008367	VOLUME	479628.604	3742962.325	441.21
LOCATION	L0008368	VOLUME	479627.142	3742965.678	441.23
LOCATION	L0008369	VOLUME	479625.681	3742969.031	441.24
LOCATION	L0008370	VOLUME	479624.220	3742972.384	441.25
LOCATION	L0008371	VOLUME	479622.758	3742975.737	441.26
LOCATION	L0008372	VOLUME	479621.297	3742979.090	441.28
LOCATION	L0008373	VOLUME	479619.836	3742982.443	441.29
LOCATION	L0008374	VOLUME	479618.374	3742985.796	441.30
LOCATION	L0008375	VOLUME	479622.030	3742985.779	441.28
LOCATION	L0008376	VOLUME	479625.688	3742985.762	441.26
LOCATION	L0008377	VOLUME	479629.345	3742985.744	441.24



LOCATION	VOLUME				
L0008378	479633.003	3742985.726	441.22		
L0008379	479636.660	3742985.708	441.21		
L0008380	479638.686	3742987.339	441.20		
L0008381	479638.703	3742990.996	441.21		
L0008382	479638.720	3742994.654	441.22		
L0008383	479638.736	3742998.311	441.23		
L0008384	479638.753	3743001.969	441.24		
L0008385	479638.770	3743005.626	441.26		
L0008386	479638.787	3743009.284	441.26		
L0008387	479638.804	3743012.941	441.27		
L0008388	479638.821	3743016.599	441.28		
L0008389	479638.838	3743020.257	441.29		
L0008390	479638.855	3743023.914	441.30		
L0008391	479638.872	3743027.572	441.31		
L0008392	479638.889	3743031.229	441.32		
L0008393	479638.906	3743034.887	441.33		
L0008394	479638.922	3743038.544	441.34		
L0008395	479638.749	3743042.013	441.36		
L0008396	479635.091	3743042.039	441.36		
L0008397	479631.434	3743042.065	441.37		
L0008398	479627.776	3743042.091	441.38		
L0008399	479624.119	3743042.116	441.39		
L0008400	479620.461	3743042.142	441.40		
L0008401	479616.804	3743042.168	441.42		
L0008402	479613.146	3743042.193	441.43		
L0008403	479609.489	3743042.219	441.44		
L0008404	479605.831	3743042.245	441.45		
L0008405	479602.174	3743042.270	441.47		
L0008406	479598.516	3743042.296	441.50		
L0008407	479594.859	3743042.322	441.52		
L0008408	479591.201	3743042.347	441.55		
L0008409	479587.543	3743042.373	441.58		
L0008410	479583.886	3743042.399	441.60		

```

** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Onsite from northern project driveway to loading/parking
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 2.35E-06
** Elevated
** Building Height = 14.02
** SZINIT = 6.52
** Nodes = 4
** 479889.642, 3743102.412, 441.04, 0.00, 1.70
** 479816.557, 3743101.433, 441.04, 0.00, 1.70
** 479778.789, 3743093.729, 441.12, 0.00, 1.70
** 479547.668, 3743097.718, 441.55, 0.00, 1.70
** -----

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LOCATION	L0008411	VOLUME	479887.813	3743102.387	441.03
LOCATION	L0008412	VOLUME	479884.156	3743102.338	441.04
LOCATION	L0008413	VOLUME	479880.498	3743102.289	441.03
LOCATION	L0008414	VOLUME	479876.841	3743102.240	441.02
LOCATION	L0008415	VOLUME	479873.184	3743102.191	441.01
LOCATION	L0008416	VOLUME	479869.527	3743102.142	441.00
LOCATION	L0008417	VOLUME	479865.869	3743102.094	441.00
LOCATION	L0008418	VOLUME	479862.212	3743102.045	440.99
LOCATION	L0008419	VOLUME	479858.555	3743101.996	440.99
LOCATION	L0008420	VOLUME	479854.897	3743101.947	440.99
LOCATION	L0008421	VOLUME	479851.240	3743101.898	441.00
LOCATION	L0008422	VOLUME	479847.583	3743101.849	441.00
LOCATION	L0008423	VOLUME	479843.926	3743101.800	441.01
LOCATION	L0008424	VOLUME	479840.268	3743101.751	441.02
LOCATION	L0008425	VOLUME	479836.611	3743101.702	441.02
LOCATION	L0008426	VOLUME	479832.954	3743101.653	441.03
LOCATION	L0008427	VOLUME	479829.297	3743101.604	441.03
LOCATION	L0008428	VOLUME	479825.639	3743101.555	441.03
LOCATION	L0008429	VOLUME	479821.982	3743101.506	441.04
LOCATION	L0008430	VOLUME	479818.325	3743101.457	441.04
LOCATION	L0008431	VOLUME	479814.705	3743101.056	441.05
LOCATION	L0008432	VOLUME	479811.122	3743100.324	441.05
LOCATION	L0008433	VOLUME	479807.538	3743099.593	441.06
LOCATION	L0008434	VOLUME	479803.954	3743098.862	441.07
LOCATION	L0008435	VOLUME	479800.370	3743098.131	441.08
LOCATION	L0008436	VOLUME	479796.786	3743097.400	441.09
LOCATION	L0008437	VOLUME	479793.203	3743096.669	441.10
LOCATION	L0008438	VOLUME	479789.619	3743095.938	441.10
LOCATION	L0008439	VOLUME	479786.035	3743095.207	441.11
LOCATION	L0008440	VOLUME	479782.451	3743094.476	441.12
LOCATION	L0008441	VOLUME	479778.867	3743093.745	441.13
LOCATION	L0008442	VOLUME	479775.212	3743093.791	441.14
LOCATION	L0008443	VOLUME	479771.555	3743093.854	441.15
LOCATION	L0008444	VOLUME	479767.898	3743093.917	441.16
LOCATION	L0008445	VOLUME	479764.241	3743093.980	441.17
LOCATION	L0008446	VOLUME	479760.584	3743094.043	441.18
LOCATION	L0008447	VOLUME	479756.927	3743094.106	441.19
LOCATION	L0008448	VOLUME	479753.270	3743094.169	441.18
LOCATION	L0008449	VOLUME	479749.613	3743094.233	441.18
LOCATION	L0008450	VOLUME	479745.956	3743094.296	441.17
LOCATION	L0008451	VOLUME	479742.298	3743094.359	441.16
LOCATION	L0008452	VOLUME	479738.641	3743094.422	441.16
LOCATION	L0008453	VOLUME	479734.984	3743094.485	441.15
LOCATION	L0008454	VOLUME	479731.327	3743094.548	441.15
LOCATION	L0008455	VOLUME	479727.670	3743094.611	441.15
LOCATION	L0008456	VOLUME	479724.013	3743094.674	441.15
LOCATION	L0008457	VOLUME	479720.356	3743094.738	441.15
LOCATION	L0008458	VOLUME	479716.699	3743094.801	441.15
LOCATION	L0008459	VOLUME	479713.042	3743094.864	441.15
LOCATION	L0008460	VOLUME	479709.385	3743094.927	441.15
LOCATION	L0008461	VOLUME	479705.728	3743094.990	441.16

LOCATION	L0008462	VOLUME	479702.071	3743095.053	441.16
LOCATION	L0008463	VOLUME	479698.414	3743095.116	441.17
LOCATION	L0008464	VOLUME	479694.757	3743095.179	441.18
LOCATION	L0008465	VOLUME	479691.100	3743095.242	441.19
LOCATION	L0008466	VOLUME	479687.443	3743095.306	441.20
LOCATION	L0008467	VOLUME	479683.786	3743095.369	441.20
LOCATION	L0008468	VOLUME	479680.129	3743095.432	441.21
LOCATION	L0008469	VOLUME	479676.471	3743095.495	441.21
LOCATION	L0008470	VOLUME	479672.814	3743095.558	441.22
LOCATION	L0008471	VOLUME	479669.157	3743095.621	441.22
LOCATION	L0008472	VOLUME	479665.500	3743095.684	441.23
LOCATION	L0008473	VOLUME	479661.843	3743095.747	441.23
LOCATION	L0008474	VOLUME	479658.186	3743095.810	441.23
LOCATION	L0008475	VOLUME	479654.529	3743095.874	441.24
LOCATION	L0008476	VOLUME	479650.872	3743095.937	441.24
LOCATION	L0008477	VOLUME	479647.215	3743096.000	441.24
LOCATION	L0008478	VOLUME	479643.558	3743096.063	441.24
LOCATION	L0008479	VOLUME	479639.901	3743096.126	441.24
LOCATION	L0008480	VOLUME	479636.244	3743096.189	441.24
LOCATION	L0008481	VOLUME	479632.587	3743096.252	441.24
LOCATION	L0008482	VOLUME	479628.930	3743096.315	441.24
LOCATION	L0008483	VOLUME	479625.273	3743096.379	441.25
LOCATION	L0008484	VOLUME	479621.616	3743096.442	441.26
LOCATION	L0008485	VOLUME	479617.959	3743096.505	441.27
LOCATION	L0008486	VOLUME	479614.302	3743096.568	441.28
LOCATION	L0008487	VOLUME	479610.644	3743096.631	441.29
LOCATION	L0008488	VOLUME	479606.987	3743096.694	441.30
LOCATION	L0008489	VOLUME	479603.330	3743096.757	441.31
LOCATION	L0008490	VOLUME	479599.673	3743096.820	441.33
LOCATION	L0008491	VOLUME	479596.016	3743096.883	441.34
LOCATION	L0008492	VOLUME	479592.359	3743096.947	441.35
LOCATION	L0008493	VOLUME	479588.702	3743097.010	441.36
LOCATION	L0008494	VOLUME	479585.045	3743097.073	441.38
LOCATION	L0008495	VOLUME	479581.388	3743097.136	441.39
LOCATION	L0008496	VOLUME	479577.731	3743097.199	441.40
LOCATION	L0008497	VOLUME	479574.074	3743097.262	441.42
LOCATION	L0008498	VOLUME	479570.417	3743097.325	441.44
LOCATION	L0008499	VOLUME	479566.760	3743097.388	441.47
LOCATION	L0008500	VOLUME	479563.103	3743097.451	441.49
LOCATION	L0008501	VOLUME	479559.446	3743097.515	441.51
LOCATION	L0008502	VOLUME	479555.789	3743097.578	441.53
LOCATION	L0008503	VOLUME	479552.132	3743097.641	441.55
LOCATION	L0008504	VOLUME	479548.475	3743097.704	441.55

\*\* End of LINE VOLUME Source ID = SLINE2

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

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

\*\* PREFIX

\*\* Length of Side = 3.66

\*\* Configuration = Adjacent

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** Emission Rate = 1.04E-06
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 479890.384, 3742886.270, 440.49, 0.00, 1.70
** 479890.599, 3743102.594, 441.04, 0.00, 1.70
**

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LOCATION L0008505    VOLUME  479890.386 3742888.098 440.47
LOCATION L0008506    VOLUME  479890.390 3742891.756 440.46
LOCATION L0008507    VOLUME  479890.393 3742895.414 440.46
LOCATION L0008508    VOLUME  479890.397 3742899.071 440.45
LOCATION L0008509    VOLUME  479890.401 3742902.729 440.45
LOCATION L0008510    VOLUME  479890.404 3742906.386 440.44
LOCATION L0008511    VOLUME  479890.408 3742910.044 440.44
LOCATION L0008512    VOLUME  479890.412 3742913.702 440.43
LOCATION L0008513    VOLUME  479890.415 3742917.359 440.44
LOCATION L0008514    VOLUME  479890.419 3742921.017 440.44
LOCATION L0008515    VOLUME  479890.422 3742924.674 440.45
LOCATION L0008516    VOLUME  479890.426 3742928.332 440.45
LOCATION L0008517    VOLUME  479890.430 3742931.990 440.45
LOCATION L0008518    VOLUME  479890.433 3742935.647 440.46
LOCATION L0008519    VOLUME  479890.437 3742939.305 440.46
LOCATION L0008520    VOLUME  479890.441 3742942.962 440.47
LOCATION L0008521    VOLUME  479890.444 3742946.620 440.47
LOCATION L0008522    VOLUME  479890.448 3742950.278 440.48
LOCATION L0008523    VOLUME  479890.452 3742953.935 440.48
LOCATION L0008524    VOLUME  479890.455 3742957.593 440.49
LOCATION L0008525    VOLUME  479890.459 3742961.250 440.49
LOCATION L0008526    VOLUME  479890.462 3742964.908 440.50
LOCATION L0008527    VOLUME  479890.466 3742968.566 440.50
LOCATION L0008528    VOLUME  479890.470 3742972.223 440.51
LOCATION L0008529    VOLUME  479890.473 3742975.881 440.52
LOCATION L0008530    VOLUME  479890.477 3742979.538 440.52
LOCATION L0008531    VOLUME  479890.481 3742983.196 440.53
LOCATION L0008532    VOLUME  479890.484 3742986.854 440.53
LOCATION L0008533    VOLUME  479890.488 3742990.511 440.54
LOCATION L0008534    VOLUME  479890.491 3742994.169 440.54
LOCATION L0008535    VOLUME  479890.495 3742997.826 440.55
LOCATION L0008536    VOLUME  479890.499 3743001.484 440.55
LOCATION L0008537    VOLUME  479890.502 3743005.142 440.56
LOCATION L0008538    VOLUME  479890.506 3743008.799 440.57
LOCATION L0008539    VOLUME  479890.510 3743012.457 440.59
LOCATION L0008540    VOLUME  479890.513 3743016.114 440.61
LOCATION L0008541    VOLUME  479890.517 3743019.772 440.62
LOCATION L0008542    VOLUME  479890.520 3743023.430 440.64
LOCATION L0008543    VOLUME  479890.524 3743027.087 440.65
LOCATION L0008544    VOLUME  479890.528 3743030.745 440.67
LOCATION L0008545    VOLUME  479890.531 3743034.402 440.69
LOCATION L0008546    VOLUME  479890.535 3743038.060 440.70
LOCATION L0008547    VOLUME  479890.539 3743041.718 440.73

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LOCATION	VOLUME	479890.542	3743045.375	440.75
LOCATION L0008548	VOLUME	479890.542	3743045.375	440.75
LOCATION L0008549	VOLUME	479890.546	3743049.033	440.77
LOCATION L0008550	VOLUME	479890.550	3743052.690	440.79
LOCATION L0008551	VOLUME	479890.553	3743056.348	440.81
LOCATION L0008552	VOLUME	479890.557	3743060.006	440.83
LOCATION L0008553	VOLUME	479890.560	3743063.663	440.85
LOCATION L0008554	VOLUME	479890.564	3743067.321	440.87
LOCATION L0008555	VOLUME	479890.568	3743070.978	440.89
LOCATION L0008556	VOLUME	479890.571	3743074.636	440.90
LOCATION L0008557	VOLUME	479890.575	3743078.294	440.92
LOCATION L0008558	VOLUME	479890.579	3743081.951	440.93
LOCATION L0008559	VOLUME	479890.582	3743085.609	440.95
LOCATION L0008560	VOLUME	479890.586	3743089.266	440.96
LOCATION L0008561	VOLUME	479890.589	3743092.924	440.98
LOCATION L0008562	VOLUME	479890.593	3743096.582	441.00
LOCATION L0008563	VOLUME	479890.597	3743100.239	441.00

\*\* End of LINE VOLUME Source ID = SLINE3

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Offsite Redlands Ave north of northern project driveway

\*\* PREFIX

\*\* Length of Side = 3.66

\*\* Configuration = Adjacent

\*\* Emission Rate = 4.46E-06

\*\* Elevated

\*\* Vertical Dimension = 3.66

\*\* SZINIT = 0.85

\*\* Nodes = 5

\*\* 479890.143, 3743103.577, 441.04, 0.00, 1.70

\*\* 479896.144, 3743335.805, 440.42, 0.00, 1.70

\*\* 479904.078, 3743363.665, 440.21, 0.00, 1.70

\*\* 479907.418, 3743562.283, 439.77, 0.00, 1.70

\*\* 479907.757, 3743565.880, 439.77, 0.00, 1.70

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LOCATION L0008564	VOLUME	479890.190	3743105.405	441.00
LOCATION L0008565	VOLUME	479890.285	3743109.061	441.00
LOCATION L0008566	VOLUME	479890.379	3743112.717	440.99
LOCATION L0008567	VOLUME	479890.474	3743116.374	440.99
LOCATION L0008568	VOLUME	479890.568	3743120.030	440.99
LOCATION L0008569	VOLUME	479890.663	3743123.687	440.99
LOCATION L0008570	VOLUME	479890.757	3743127.343	440.99
LOCATION L0008571	VOLUME	479890.852	3743130.999	440.98
LOCATION L0008572	VOLUME	479890.946	3743134.656	440.97
LOCATION L0008573	VOLUME	479891.041	3743138.312	440.97
LOCATION L0008574	VOLUME	479891.135	3743141.969	440.96
LOCATION L0008575	VOLUME	479891.230	3743145.625	440.95
LOCATION L0008576	VOLUME	479891.324	3743149.281	440.95
LOCATION L0008577	VOLUME	479891.419	3743152.938	440.94
LOCATION L0008578	VOLUME	479891.513	3743156.594	440.93
LOCATION L0008579	VOLUME	479891.607	3743160.250	440.92

LOCATION	L0008580	VOLUME	479891.702	3743163.907	440.91
LOCATION	L0008581	VOLUME	479891.796	3743167.563	440.90
LOCATION	L0008582	VOLUME	479891.891	3743171.220	440.89
LOCATION	L0008583	VOLUME	479891.985	3743174.876	440.88
LOCATION	L0008584	VOLUME	479892.080	3743178.532	440.87
LOCATION	L0008585	VOLUME	479892.174	3743182.189	440.86
LOCATION	L0008586	VOLUME	479892.269	3743185.845	440.85
LOCATION	L0008587	VOLUME	479892.363	3743189.501	440.84
LOCATION	L0008588	VOLUME	479892.458	3743193.158	440.83
LOCATION	L0008589	VOLUME	479892.552	3743196.814	440.83
LOCATION	L0008590	VOLUME	479892.647	3743200.471	440.82
LOCATION	L0008591	VOLUME	479892.741	3743204.127	440.81
LOCATION	L0008592	VOLUME	479892.836	3743207.783	440.81
LOCATION	L0008593	VOLUME	479892.930	3743211.440	440.80
LOCATION	L0008594	VOLUME	479893.025	3743215.096	440.79
LOCATION	L0008595	VOLUME	479893.119	3743218.752	440.79
LOCATION	L0008596	VOLUME	479893.214	3743222.409	440.78
LOCATION	L0008597	VOLUME	479893.308	3743226.065	440.77
LOCATION	L0008598	VOLUME	479893.403	3743229.722	440.77
LOCATION	L0008599	VOLUME	479893.497	3743233.378	440.76
LOCATION	L0008600	VOLUME	479893.592	3743237.034	440.75
LOCATION	L0008601	VOLUME	479893.686	3743240.691	440.75
LOCATION	L0008602	VOLUME	479893.780	3743244.347	440.74
LOCATION	L0008603	VOLUME	479893.875	3743248.004	440.73
LOCATION	L0008604	VOLUME	479893.969	3743251.660	440.73
LOCATION	L0008605	VOLUME	479894.064	3743255.316	440.72
LOCATION	L0008606	VOLUME	479894.158	3743258.973	440.70
LOCATION	L0008607	VOLUME	479894.253	3743262.629	440.69
LOCATION	L0008608	VOLUME	479894.347	3743266.285	440.68
LOCATION	L0008609	VOLUME	479894.442	3743269.942	440.67
LOCATION	L0008610	VOLUME	479894.536	3743273.598	440.65
LOCATION	L0008611	VOLUME	479894.631	3743277.255	440.64
LOCATION	L0008612	VOLUME	479894.725	3743280.911	440.63
LOCATION	L0008613	VOLUME	479894.820	3743284.567	440.62
LOCATION	L0008614	VOLUME	479894.914	3743288.224	440.61
LOCATION	L0008615	VOLUME	479895.009	3743291.880	440.60
LOCATION	L0008616	VOLUME	479895.103	3743295.536	440.59
LOCATION	L0008617	VOLUME	479895.198	3743299.193	440.57
LOCATION	L0008618	VOLUME	479895.292	3743302.849	440.56
LOCATION	L0008619	VOLUME	479895.387	3743306.506	440.55
LOCATION	L0008620	VOLUME	479895.481	3743310.162	440.54
LOCATION	L0008621	VOLUME	479895.576	3743313.818	440.53
LOCATION	L0008622	VOLUME	479895.670	3743317.475	440.51
LOCATION	L0008623	VOLUME	479895.765	3743321.131	440.50
LOCATION	L0008624	VOLUME	479895.859	3743324.787	440.48
LOCATION	L0008625	VOLUME	479895.953	3743328.444	440.47
LOCATION	L0008626	VOLUME	479896.048	3743332.100	440.45
LOCATION	L0008627	VOLUME	479896.142	3743335.757	440.44
LOCATION	L0008628	VOLUME	479897.132	3743339.276	440.42
LOCATION	L0008629	VOLUME	479898.134	3743342.794	440.40
LOCATION	L0008630	VOLUME	479899.136	3743346.312	440.38

LOCATION	L0008631	VOLUME	479900.138	3743349.829	440.35
LOCATION	L0008632	VOLUME	479901.139	3743353.347	440.32
LOCATION	L0008633	VOLUME	479902.141	3743356.865	440.29
LOCATION	L0008634	VOLUME	479903.143	3743360.383	440.27
LOCATION	L0008635	VOLUME	479904.082	3743363.910	440.25
LOCATION	L0008636	VOLUME	479904.144	3743367.567	440.22
LOCATION	L0008637	VOLUME	479904.205	3743371.224	440.19
LOCATION	L0008638	VOLUME	479904.267	3743374.881	440.17
LOCATION	L0008639	VOLUME	479904.328	3743378.538	440.13
LOCATION	L0008640	VOLUME	479904.390	3743382.195	440.10
LOCATION	L0008641	VOLUME	479904.451	3743385.852	440.06
LOCATION	L0008642	VOLUME	479904.513	3743389.509	440.03
LOCATION	L0008643	VOLUME	479904.574	3743393.166	439.99
LOCATION	L0008644	VOLUME	479904.636	3743396.823	439.96
LOCATION	L0008645	VOLUME	479904.697	3743400.480	439.93
LOCATION	L0008646	VOLUME	479904.758	3743404.138	439.89
LOCATION	L0008647	VOLUME	479904.820	3743407.795	439.88
LOCATION	L0008648	VOLUME	479904.881	3743411.452	439.87
LOCATION	L0008649	VOLUME	479904.943	3743415.109	439.87
LOCATION	L0008650	VOLUME	479905.004	3743418.766	439.86
LOCATION	L0008651	VOLUME	479905.066	3743422.423	439.85
LOCATION	L0008652	VOLUME	479905.127	3743426.080	439.85
LOCATION	L0008653	VOLUME	479905.189	3743429.737	439.84
LOCATION	L0008654	VOLUME	479905.250	3743433.394	439.83
LOCATION	L0008655	VOLUME	479905.312	3743437.051	439.83
LOCATION	L0008656	VOLUME	479905.373	3743440.708	439.85
LOCATION	L0008657	VOLUME	479905.435	3743444.365	439.86
LOCATION	L0008658	VOLUME	479905.496	3743448.023	439.88
LOCATION	L0008659	VOLUME	479905.558	3743451.680	439.90
LOCATION	L0008660	VOLUME	479905.619	3743455.337	439.91
LOCATION	L0008661	VOLUME	479905.681	3743458.994	439.93
LOCATION	L0008662	VOLUME	479905.742	3743462.651	439.94
LOCATION	L0008663	VOLUME	479905.804	3743466.308	439.96
LOCATION	L0008664	VOLUME	479905.865	3743469.965	439.95
LOCATION	L0008665	VOLUME	479905.927	3743473.622	439.94
LOCATION	L0008666	VOLUME	479905.988	3743477.279	439.93
LOCATION	L0008667	VOLUME	479906.050	3743480.936	439.91
LOCATION	L0008668	VOLUME	479906.111	3743484.593	439.90
LOCATION	L0008669	VOLUME	479906.173	3743488.250	439.89
LOCATION	L0008670	VOLUME	479906.234	3743491.908	439.88
LOCATION	L0008671	VOLUME	479906.296	3743495.565	439.86
LOCATION	L0008672	VOLUME	479906.357	3743499.222	439.85
LOCATION	L0008673	VOLUME	479906.419	3743502.879	439.84
LOCATION	L0008674	VOLUME	479906.480	3743506.536	439.84
LOCATION	L0008675	VOLUME	479906.542	3743510.193	439.83
LOCATION	L0008676	VOLUME	479906.603	3743513.850	439.82
LOCATION	L0008677	VOLUME	479906.665	3743517.507	439.81
LOCATION	L0008678	VOLUME	479906.726	3743521.164	439.80
LOCATION	L0008679	VOLUME	479906.788	3743524.821	439.79
LOCATION	L0008680	VOLUME	479906.849	3743528.478	439.78
LOCATION	L0008681	VOLUME	479906.911	3743532.135	439.78

LOCATION	L0008682	VOLUME	479906.972	3743535.792	439.77
LOCATION	L0008683	VOLUME	479907.034	3743539.450	439.77
LOCATION	L0008684	VOLUME	479907.095	3743543.107	439.76
LOCATION	L0008685	VOLUME	479907.157	3743546.764	439.75
LOCATION	L0008686	VOLUME	479907.218	3743550.421	439.75
LOCATION	L0008687	VOLUME	479907.280	3743554.078	439.74
LOCATION	L0008688	VOLUME	479907.341	3743557.735	439.74
LOCATION	L0008689	VOLUME	479907.403	3743561.392	439.73
LOCATION	L0008690	VOLUME	479907.678	3743565.037	439.73
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	479782.060	3742912.560	440.710
** DESCRSRC Idle 1					
LOCATION	STCK2	POINT	479715.190	3742912.990	440.960
** DESCRSRC Idle 2					
LOCATION	STCK3	POINT	479747.590	3742881.180	440.910
** DESCRSRC Idle 3					
LOCATION	STCK4	POINT	479780.300	3743074.970	441.090
** DESCRSRC Idle 4					
LOCATION	STCK5	POINT	479686.860	3743078.130	441.280
** DESCRSRC Idle 5					
LOCATION	STCK6	POINT	479594.670	3743090.200	441.400
** DESCRSRC Idle 6					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0008286	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008287	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008288	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008289	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008290	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008291	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008292	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008293	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008294	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008295	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008296	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008297	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008298	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008299	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008300	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008301	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008302	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008303	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008304	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008305	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008306	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008307	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008308	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008309	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008310	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008311	0.0000002512	0.00	1.70	6.52
SRCPARAM	L0008312	0.0000002512	0.00	1.70	6.52





SRCPARAM	L0008364	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008365	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008366	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008367	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008368	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008369	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008370	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008371	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008372	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008373	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008374	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008375	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008376	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008377	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008378	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008379	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008380	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008381	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008382	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008383	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008384	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008385	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008386	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008387	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008388	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008389	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008390	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008391	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008392	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008393	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008394	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008395	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008396	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008397	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008398	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008399	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008400	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008401	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008402	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008403	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008404	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008405	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008406	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008407	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008408	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008409	0.00000002512	0.00	1.70	6.52
SRCPARAM	L0008410	0.00000002512	0.00	1.70	6.52

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\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM	L0008411	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008412	0.000000025	0.00	1.70	6.52



SRCPARAM	L0008464	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008465	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008466	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008467	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008468	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008469	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008470	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008471	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008472	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008473	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008474	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008475	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008476	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008477	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008478	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008479	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008480	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008481	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008482	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008483	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008484	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008485	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008486	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008487	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008488	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008489	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008490	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008491	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008492	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008493	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008494	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008495	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008496	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008497	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008498	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008499	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008500	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008501	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008502	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008503	0.000000025	0.00	1.70	6.52
SRCPARAM	L0008504	0.000000025	0.00	1.70	6.52

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\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM	L0008505	0.00000001763	0.00	1.70	0.85
SRCPARAM	L0008506	0.00000001763	0.00	1.70	0.85
SRCPARAM	L0008507	0.00000001763	0.00	1.70	0.85
SRCPARAM	L0008508	0.00000001763	0.00	1.70	0.85
SRCPARAM	L0008509	0.00000001763	0.00	1.70	0.85
SRCPARAM	L0008510	0.00000001763	0.00	1.70	0.85
SRCPARAM	L0008511	0.00000001763	0.00	1.70	0.85
SRCPARAM	L0008512	0.00000001763	0.00	1.70	0.85



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** LINE VOLUME Source ID = SLINE4
SRCPARAM L0008564 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008565 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008566 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008567 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008568 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008569 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008570 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008571 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008572 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008573 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008574 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008575 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008576 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008577 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008578 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008579 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008580 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008581 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008582 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008583 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008584 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008585 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008586 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008587 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008588 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008589 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008590 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008591 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008592 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008593 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008594 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008595 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008596 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008597 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008598 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008599 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008600 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008601 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008602 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008603 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008604 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008605 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008606 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008607 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008608 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008609 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008610 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008611 0.00000003512 0.00 1.70 0.85
SRCPARAM L0008612 0.00000003512 0.00 1.70 0.85

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SRCPARAM	L0008664	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008665	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008666	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008667	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008668	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008669	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008670	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008671	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008672	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008673	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008674	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008675	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008676	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008677	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008678	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008679	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008680	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008681	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008682	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008683	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008684	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008685	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008686	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008687	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008688	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008689	0.00000003512	0.00	1.70	0.85
SRCPARAM	L0008690	0.00000003512	0.00	1.70	0.85

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SRCPARAM	STCK1	0.000011	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.000011	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.000011	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.000011	3.658	366.000	51.90000	0.100
SRCPARAM	STCK5	0.000011	3.658	366.000	51.90000	0.100
SRCPARAM	STCK6	0.000011	3.658	366.000	51.90000	0.100

\*\* Building Downwash \*\*

BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK1	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK2	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02



BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	0.00	0.00	14.02	14.02
BUILDHGT	STCK3	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK4	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK5	14.02	14.02	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK6	0.00	0.00	14.02	14.02	14.02	14.02
BUILDHGT	STCK6	14.02	14.02	14.02	14.02	0.00	0.00
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK1	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK1	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK1	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK2	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK2	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK2	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK3	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK3	225.15	198.55	0.00	0.00	219.24	236.83
BUILDWID	STCK3	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01

BUILDWID	STCK4	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK4	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK4	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK5	228.19	246.99	258.29	261.74	257.23	244.91
BUILDWID	STCK5	225.15	198.55	186.37	194.99	219.24	236.83
BUILDWID	STCK5	247.22	250.11	246.23	238.75	224.01	205.01
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK6	0.00	0.00	186.37	194.99	219.24	236.83
BUILDWID	STCK6	247.22	250.11	246.23	238.75	0.00	0.00
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK1	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK1	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK1	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK2	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK2	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK2	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK3	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK3	238.75	224.01	0.00	0.00	246.99	258.29
BUILDLN	STCK3	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK4	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK4	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK4	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29
BUILDLN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLN	STCK5	194.99	219.24	236.83	247.22	250.11	246.23
BUILDLN	STCK5	238.75	224.01	205.01	228.19	246.99	258.29

BUILDLLEN	STCK5	261.74	257.23	244.91	225.15	198.55	186.37
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK6	0.00	0.00	205.01	228.19	246.99	258.29
BUILDLLEN	STCK6	261.74	257.23	244.91	225.15	0.00	0.00
XBADJ	STCK1	-14.33	-35.21	-55.02	-73.16	-89.07	-103.12
XBADJ	STCK1	-117.90	-129.11	-136.39	-161.49	-181.67	-196.34
XBADJ	STCK1	-205.04	-207.52	-203.68	-193.66	-177.76	-174.35
XBADJ	STCK1	-180.65	-184.03	-181.81	-174.07	-161.04	-143.11
XBADJ	STCK1	-120.84	-94.90	-68.62	-66.71	-65.32	-61.95
XBADJ	STCK1	-56.69	-49.72	-41.23	-31.49	-20.79	-12.02
XBADJ	STCK2	-3.15	-12.75	-21.96	-30.50	-38.12	-45.42
XBADJ	STCK2	-55.21	-63.33	-69.52	-95.56	-118.69	-138.22
XBADJ	STCK2	-153.54	-164.20	-169.88	-170.39	-165.72	-173.92
XBADJ	STCK2	-191.84	-206.49	-214.87	-216.72	-211.99	-200.81
XBADJ	STCK2	-183.53	-160.68	-135.49	-132.64	-128.31	-120.07
XBADJ	STCK2	-108.20	-93.03	-75.03	-54.76	-32.82	-12.45
XBADJ	STCK3	22.56	6.07	-10.61	-26.96	-42.49	-57.58
XBADJ	STCK3	-74.78	-89.71	0.00	0.00	-160.02	-182.18
XBADJ	STCK3	-198.81	-209.40	-213.63	-211.36	-202.67	-205.73
XBADJ	STCK3	-217.54	-225.30	-226.22	-220.26	-207.61	-188.66
XBADJ	STCK3	-163.96	-134.29	0.00	0.00	-86.98	-76.11
XBADJ	STCK3	-62.93	-47.83	-31.29	-13.79	4.13	19.36
XBADJ	STCK4	-173.97	-187.23	-194.79	-196.44	-192.12	-182.80
XBADJ	STCK4	-171.80	-155.58	-134.63	-131.55	-124.47	-113.61
XBADJ	STCK4	-99.30	-81.97	-62.15	-40.45	-17.51	-11.94
XBADJ	STCK4	-21.02	-32.01	-42.04	-50.79	-57.99	-63.43
XBADJ	STCK4	-66.95	-68.43	-70.38	-96.64	-122.52	-144.68
XBADJ	STCK4	-162.44	-175.26	-182.76	-184.70	-181.04	-174.43
XBADJ	STCK5	-160.86	-158.24	-150.81	-138.80	-122.57	-103.46
XBADJ	STCK5	-85.07	-64.11	-41.19	-38.98	-35.59	-31.11
XBADJ	STCK5	-25.69	-19.49	-12.70	-5.52	1.83	-8.78
XBADJ	STCK5	-34.13	-61.00	-86.02	-108.43	-127.54	-142.77
XBADJ	STCK5	-153.67	-159.90	-163.82	-189.21	-211.41	-227.18
XBADJ	STCK5	-236.05	-237.74	-232.22	-219.63	-200.38	-177.59
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK6	0.00	0.00	-256.01	-282.10	-302.17	-313.05
XBADJ	STCK6	-314.43	-306.25	-288.76	-262.50	0.00	0.00

YBADJ	STCK1	47.39	58.18	67.20	74.18	78.90	81.23
YBADJ	STCK1	81.09	78.48	81.17	83.16	74.41	63.39
YBADJ	STCK1	50.46	35.98	20.00	1.47	-17.11	-33.89
YBADJ	STCK1	-47.39	-58.18	-67.20	-74.18	-78.90	-81.23
YBADJ	STCK1	-81.09	-78.48	-81.17	-83.16	-74.41	-63.39
YBADJ	STCK1	-50.46	-35.98	-20.00	-1.47	17.11	33.89
YBADJ	STCK2	-18.54	-4.81	9.07	22.67	35.59	47.42
YBADJ	STCK2	57.81	66.45	80.74	94.35	96.87	96.46
YBADJ	STCK2	93.11	86.93	77.69	64.16	48.67	32.98
YBADJ	STCK2	18.54	4.81	-9.07	-22.67	-35.59	-47.42
YBADJ	STCK2	-57.81	-66.45	-80.74	-94.35	-96.87	-96.46
YBADJ	STCK2	-93.11	-86.93	-77.69	-64.16	-48.67	-32.98
YBADJ	STCK3	18.89	36.52	53.04	67.94	80.78	91.17
YBADJ	STCK3	98.79	103.40	0.00	0.00	115.68	107.81
YBADJ	STCK3	96.65	82.56	65.54	44.59	22.29	0.58
YBADJ	STCK3	-18.89	-36.52	-53.04	-67.94	-80.78	-91.17
YBADJ	STCK3	-98.79	-103.40	0.00	0.00	-115.68	-107.81
YBADJ	STCK3	-96.65	-82.56	-65.54	-44.59	-22.29	-0.58
YBADJ	STCK4	17.45	0.98	-15.53	-31.57	-46.64	-60.30
YBADJ	STCK4	-72.13	-81.76	-81.24	-76.48	-77.61	-76.38
YBADJ	STCK4	-72.83	-67.06	-59.68	-52.43	-43.57	-32.12
YBADJ	STCK4	-17.45	-0.97	15.53	31.57	46.64	60.30
YBADJ	STCK4	72.13	81.76	81.24	76.48	77.61	76.38
YBADJ	STCK4	72.83	67.06	59.68	52.43	43.57	32.12
YBADJ	STCK5	-75.12	-87.91	-98.03	-105.18	-109.13	-109.76
YBADJ	STCK5	-107.06	-101.10	-84.40	-63.36	-48.62	-32.39
YBADJ	STCK5	-15.19	2.48	19.66	34.30	47.90	61.32
YBADJ	STCK5	75.12	87.91	98.03	105.18	109.13	109.76
YBADJ	STCK5	107.06	101.10	84.40	63.36	48.62	32.39
YBADJ	STCK5	15.19	-2.48	-19.66	-34.30	-47.90	-61.32
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK6	0.00	0.00	96.47	59.24	28.43	-3.25
YBADJ	STCK6	-34.83	-65.35	-93.46	-116.80	0.00	0.00

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

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RE STARTING  
INCLUDED "19370 Redlands Avenue West 2040-53.rou"  
RE FINISHED

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\*\*\*\*\*  
\*\* 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 "19370 REDLANDS AVENUE WEST 2040-53.AD\PE00GALL.PLT" 31  
SUMMFILE "19370 Redlands Avenue West 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           8 Warning Message(s)  
A Total of           0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320	946	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	947	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	948	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	949	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	950	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	951	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	1189	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50

ME W187 1189 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\* 00:18:54  
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\*\*\* MODELOPTs: RegDEFAULT 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 411 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: 411 Source(s); 1 Source Group(s); and 448 Receptor(s)

with: 6 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 405 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 = 4.3 MB of RAM.

\*\*Input Runstream File: aermod.inp  
 \*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 19370 Redlands Avenue West 2040-53.err  
 \*\*File for Summary of Results: 19370 Redlands Avenue West 2040-53.sum

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
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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	0.11000E-04	479782.1	3742912.6	440.7	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.11000E-04	479715.2	3742913.0	441.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.11000E-04	479747.6	3742881.2	440.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.11000E-04	479780.3	3743075.0	441.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.11000E-04	479686.9	3743078.1	441.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.11000E-04	479594.7	3743090.2	441.4	3.66	366.00	51.90	0.10	YES	YES	NO	

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0008286	0	0.25120E-07	479885.1	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008287	0	0.25120E-07	479881.4	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008288	0	0.25120E-07	479877.7	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008289	0	0.25120E-07	479874.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008290	0	0.25120E-07	479870.4	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008291	0	0.25120E-07	479866.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008292	0	0.25120E-07	479863.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008293	0	0.25120E-07	479859.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008294	0	0.25120E-07	479855.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008295	0	0.25120E-07	479852.1	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008296	0	0.25120E-07	479848.5	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008297	0	0.25120E-07	479844.8	3742886.1	440.4	0.00	1.70	6.52	YES	
L0008298	0	0.25120E-07	479841.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008299	0	0.25120E-07	479837.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008300	0	0.25120E-07	479833.9	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008301	0	0.25120E-07	479830.2	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008302	0	0.25120E-07	479826.5	3742886.1	440.5	0.00	1.70	6.52	YES	
L0008303	0	0.25120E-07	479822.9	3742886.1	440.6	0.00	1.70	6.52	YES	
L0008304	0	0.25120E-07	479819.2	3742886.1	440.6	0.00	1.70	6.52	YES	
L0008305	0	0.25120E-07	479815.6	3742886.3	440.6	0.00	1.70	6.52	YES	
L0008306	0	0.25120E-07	479811.9	3742886.7	440.6	0.00	1.70	6.52	YES	
L0008307	0	0.25120E-07	479808.3	3742887.1	440.7	0.00	1.70	6.52	YES	
L0008308	0	0.25120E-07	479804.7	3742887.4	440.7	0.00	1.70	6.52	YES	
L0008309	0	0.25120E-07	479801.0	3742887.8	440.7	0.00	1.70	6.52	YES	
L0008310	0	0.25120E-07	479797.4	3742888.2	440.7	0.00	1.70	6.52	YES	
L0008311	0	0.25120E-07	479793.7	3742888.6	440.7	0.00	1.70	6.52	YES	
L0008312	0	0.25120E-07	479790.1	3742888.9	440.7	0.00	1.70	6.52	YES	
L0008313	0	0.25120E-07	479786.5	3742889.3	440.8	0.00	1.70	6.52	YES	
L0008314	0	0.25120E-07	479782.8	3742889.7	440.8	0.00	1.70	6.52	YES	
L0008315	0	0.25120E-07	479779.2	3742890.1	440.8	0.00	1.70	6.52	YES	
L0008316	0	0.25120E-07	479775.6	3742890.4	440.8	0.00	1.70	6.52	YES	
L0008317	0	0.25120E-07	479771.9	3742890.8	440.8	0.00	1.70	6.52	YES	
L0008318	0	0.25120E-07	479768.3	3742891.2	440.8	0.00	1.70	6.52	YES	
L0008319	0	0.25120E-07	479764.6	3742891.3	440.8	0.00	1.70	6.52	YES	
L0008320	0	0.25120E-07	479761.0	3742891.3	440.8	0.00	1.70	6.52	YES	
L0008321	0	0.25120E-07	479757.3	3742891.3	440.9	0.00	1.70	6.52	YES	
L0008322	0	0.25120E-07	479753.7	3742891.4	440.9	0.00	1.70	6.52	YES	



L0008323	0	0.25120E-07	479750.0	3742891.4	440.9	0.00	1.70	6.52	YES
L0008324	0	0.25120E-07	479746.3	3742891.5	440.9	0.00	1.70	6.52	YES
L0008325	0	0.25120E-07	479742.7	3742891.5	440.9	0.00	1.70	6.52	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0008326	0	0.25120E-07	479739.0	3742891.5	440.9	0.00	1.70	6.52	YES	
L0008327	0	0.25120E-07	479735.4	3742891.6	440.9	0.00	1.70	6.52	YES	
L0008328	0	0.25120E-07	479731.7	3742891.6	440.9	0.00	1.70	6.52	YES	
L0008329	0	0.25120E-07	479728.1	3742891.7	440.9	0.00	1.70	6.52	YES	
L0008330	0	0.25120E-07	479724.4	3742891.7	441.0	0.00	1.70	6.52	YES	
L0008331	0	0.25120E-07	479720.7	3742891.7	441.0	0.00	1.70	6.52	YES	
L0008332	0	0.25120E-07	479717.1	3742891.8	441.0	0.00	1.70	6.52	YES	
L0008333	0	0.25120E-07	479713.4	3742891.8	441.0	0.00	1.70	6.52	YES	
L0008334	0	0.25120E-07	479709.8	3742891.9	441.0	0.00	1.70	6.52	YES	
L0008335	0	0.25120E-07	479706.1	3742891.9	441.0	0.00	1.70	6.52	YES	
L0008336	0	0.25120E-07	479702.5	3742891.8	441.0	0.00	1.70	6.52	YES	
L0008337	0	0.25120E-07	479698.8	3742891.6	441.0	0.00	1.70	6.52	YES	
L0008338	0	0.25120E-07	479695.1	3742891.5	441.0	0.00	1.70	6.52	YES	
L0008339	0	0.25120E-07	479691.5	3742891.3	441.1	0.00	1.70	6.52	YES	
L0008340	0	0.25120E-07	479687.8	3742891.2	441.1	0.00	1.70	6.52	YES	
L0008341	0	0.25120E-07	479684.2	3742891.0	441.1	0.00	1.70	6.52	YES	
L0008342	0	0.25120E-07	479680.5	3742890.9	441.1	0.00	1.70	6.52	YES	
L0008343	0	0.25120E-07	479677.0	3742891.6	441.1	0.00	1.70	6.52	YES	
L0008344	0	0.25120E-07	479673.7	3742893.1	441.1	0.00	1.70	6.52	YES	
L0008345	0	0.25120E-07	479670.4	3742894.7	441.1	0.00	1.70	6.52	YES	
L0008346	0	0.25120E-07	479667.1	3742896.2	441.1	0.00	1.70	6.52	YES	
L0008347	0	0.25120E-07	479664.7	3742898.8	441.2	0.00	1.70	6.52	YES	
L0008348	0	0.25120E-07	479662.8	3742901.9	441.2	0.00	1.70	6.52	YES	
L0008349	0	0.25120E-07	479661.0	3742905.1	441.2	0.00	1.70	6.52	YES	
L0008350	0	0.25120E-07	479659.1	3742908.2	441.2	0.00	1.70	6.52	YES	
L0008351	0	0.25120E-07	479657.2	3742911.4	441.2	0.00	1.70	6.52	YES	
L0008352	0	0.25120E-07	479655.3	3742914.5	441.2	0.00	1.70	6.52	YES	
L0008353	0	0.25120E-07	479653.4	3742917.6	441.2	0.00	1.70	6.52	YES	
L0008354	0	0.25120E-07	479651.5	3742920.8	441.2	0.00	1.70	6.52	YES	
L0008355	0	0.25120E-07	479649.7	3742923.9	441.2	0.00	1.70	6.52	YES	
L0008356	0	0.25120E-07	479647.8	3742927.0	441.2	0.00	1.70	6.52	YES	
L0008357	0	0.25120E-07	479645.9	3742930.2	441.2	0.00	1.70	6.52	YES	
L0008358	0	0.25120E-07	479644.0	3742933.3	441.2	0.00	1.70	6.52	YES	
L0008359	0	0.25120E-07	479642.1	3742936.4	441.2	0.00	1.70	6.52	YES	

L0008360	0	0.25120E-07	479640.2	3742939.6	441.2	0.00	1.70	6.52	YES
L0008361	0	0.25120E-07	479638.4	3742942.7	441.2	0.00	1.70	6.52	YES
L0008362	0	0.25120E-07	479636.5	3742945.8	441.2	0.00	1.70	6.52	YES
L0008363	0	0.25120E-07	479634.6	3742949.0	441.2	0.00	1.70	6.52	YES
L0008364	0	0.25120E-07	479633.0	3742952.3	441.2	0.00	1.70	6.52	YES
L0008365	0	0.25120E-07	479631.5	3742955.6	441.2	0.00	1.70	6.52	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
L0008366	0	0.25120E-07	479630.1	3742959.0	441.2	0.00	1.70	6.52	YES	
L0008367	0	0.25120E-07	479628.6	3742962.3	441.2	0.00	1.70	6.52	YES	
L0008368	0	0.25120E-07	479627.1	3742965.7	441.2	0.00	1.70	6.52	YES	
L0008369	0	0.25120E-07	479625.7	3742969.0	441.2	0.00	1.70	6.52	YES	
L0008370	0	0.25120E-07	479624.2	3742972.4	441.2	0.00	1.70	6.52	YES	
L0008371	0	0.25120E-07	479622.8	3742975.7	441.3	0.00	1.70	6.52	YES	
L0008372	0	0.25120E-07	479621.3	3742979.1	441.3	0.00	1.70	6.52	YES	
L0008373	0	0.25120E-07	479619.8	3742982.4	441.3	0.00	1.70	6.52	YES	
L0008374	0	0.25120E-07	479618.4	3742985.8	441.3	0.00	1.70	6.52	YES	
L0008375	0	0.25120E-07	479622.0	3742985.8	441.3	0.00	1.70	6.52	YES	
L0008376	0	0.25120E-07	479625.7	3742985.8	441.3	0.00	1.70	6.52	YES	
L0008377	0	0.25120E-07	479629.3	3742985.7	441.2	0.00	1.70	6.52	YES	
L0008378	0	0.25120E-07	479633.0	3742985.7	441.2	0.00	1.70	6.52	YES	
L0008379	0	0.25120E-07	479636.7	3742985.7	441.2	0.00	1.70	6.52	YES	
L0008380	0	0.25120E-07	479638.7	3742987.3	441.2	0.00	1.70	6.52	YES	
L0008381	0	0.25120E-07	479638.7	3742991.0	441.2	0.00	1.70	6.52	YES	
L0008382	0	0.25120E-07	479638.7	3742994.7	441.2	0.00	1.70	6.52	YES	
L0008383	0	0.25120E-07	479638.7	3742998.3	441.2	0.00	1.70	6.52	YES	
L0008384	0	0.25120E-07	479638.8	3743002.0	441.2	0.00	1.70	6.52	YES	
L0008385	0	0.25120E-07	479638.8	3743005.6	441.3	0.00	1.70	6.52	YES	
L0008386	0	0.25120E-07	479638.8	3743009.3	441.3	0.00	1.70	6.52	YES	
L0008387	0	0.25120E-07	479638.8	3743012.9	441.3	0.00	1.70	6.52	YES	
L0008388	0	0.25120E-07	479638.8	3743016.6	441.3	0.00	1.70	6.52	YES	
L0008389	0	0.25120E-07	479638.8	3743020.3	441.3	0.00	1.70	6.52	YES	
L0008390	0	0.25120E-07	479638.9	3743023.9	441.3	0.00	1.70	6.52	YES	
L0008391	0	0.25120E-07	479638.9	3743027.6	441.3	0.00	1.70	6.52	YES	
L0008392	0	0.25120E-07	479638.9	3743031.2	441.3	0.00	1.70	6.52	YES	
L0008393	0	0.25120E-07	479638.9	3743034.9	441.3	0.00	1.70	6.52	YES	
L0008394	0	0.25120E-07	479638.9	3743038.5	441.3	0.00	1.70	6.52	YES	
L0008395	0	0.25120E-07	479638.7	3743042.0	441.4	0.00	1.70	6.52	YES	
L0008396	0	0.25120E-07	479635.1	3743042.0	441.4	0.00	1.70	6.52	YES	

L0008397	0	0.25120E-07	479631.4	3743042.1	441.4	0.00	1.70	6.52	YES
L0008398	0	0.25120E-07	479627.8	3743042.1	441.4	0.00	1.70	6.52	YES
L0008399	0	0.25120E-07	479624.1	3743042.1	441.4	0.00	1.70	6.52	YES
L0008400	0	0.25120E-07	479620.5	3743042.1	441.4	0.00	1.70	6.52	YES
L0008401	0	0.25120E-07	479616.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0008402	0	0.25120E-07	479613.1	3743042.2	441.4	0.00	1.70	6.52	YES
L0008403	0	0.25120E-07	479609.5	3743042.2	441.4	0.00	1.70	6.52	YES
L0008404	0	0.25120E-07	479605.8	3743042.2	441.4	0.00	1.70	6.52	YES
L0008405	0	0.25120E-07	479602.2	3743042.3	441.5	0.00	1.70	6.52	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
L0008406	0	0.25120E-07	479598.5	3743042.3	441.5	0.00	1.70	6.52	YES	
L0008407	0	0.25120E-07	479594.9	3743042.3	441.5	0.00	1.70	6.52	YES	
L0008408	0	0.25120E-07	479591.2	3743042.3	441.6	0.00	1.70	6.52	YES	
L0008409	0	0.25120E-07	479587.5	3743042.4	441.6	0.00	1.70	6.52	YES	
L0008410	0	0.25120E-07	479583.9	3743042.4	441.6	0.00	1.70	6.52	YES	
L0008411	0	0.25000E-07	479887.8	3743102.4	441.0	0.00	1.70	6.52	YES	
L0008412	0	0.25000E-07	479884.2	3743102.3	441.0	0.00	1.70	6.52	YES	
L0008413	0	0.25000E-07	479880.5	3743102.3	441.0	0.00	1.70	6.52	YES	
L0008414	0	0.25000E-07	479876.8	3743102.2	441.0	0.00	1.70	6.52	YES	
L0008415	0	0.25000E-07	479873.2	3743102.2	441.0	0.00	1.70	6.52	YES	
L0008416	0	0.25000E-07	479869.5	3743102.1	441.0	0.00	1.70	6.52	YES	
L0008417	0	0.25000E-07	479865.9	3743102.1	441.0	0.00	1.70	6.52	YES	
L0008418	0	0.25000E-07	479862.2	3743102.0	441.0	0.00	1.70	6.52	YES	
L0008419	0	0.25000E-07	479858.6	3743102.0	441.0	0.00	1.70	6.52	YES	
L0008420	0	0.25000E-07	479854.9	3743101.9	441.0	0.00	1.70	6.52	YES	
L0008421	0	0.25000E-07	479851.2	3743101.9	441.0	0.00	1.70	6.52	YES	
L0008422	0	0.25000E-07	479847.6	3743101.8	441.0	0.00	1.70	6.52	YES	
L0008423	0	0.25000E-07	479843.9	3743101.8	441.0	0.00	1.70	6.52	YES	
L0008424	0	0.25000E-07	479840.3	3743101.8	441.0	0.00	1.70	6.52	YES	
L0008425	0	0.25000E-07	479836.6	3743101.7	441.0	0.00	1.70	6.52	YES	
L0008426	0	0.25000E-07	479833.0	3743101.7	441.0	0.00	1.70	6.52	YES	
L0008427	0	0.25000E-07	479829.3	3743101.6	441.0	0.00	1.70	6.52	YES	
L0008428	0	0.25000E-07	479825.6	3743101.6	441.0	0.00	1.70	6.52	YES	
L0008429	0	0.25000E-07	479822.0	3743101.5	441.0	0.00	1.70	6.52	YES	
L0008430	0	0.25000E-07	479818.3	3743101.5	441.0	0.00	1.70	6.52	YES	
L0008431	0	0.25000E-07	479814.7	3743101.1	441.1	0.00	1.70	6.52	YES	
L0008432	0	0.25000E-07	479811.1	3743100.3	441.1	0.00	1.70	6.52	YES	
L0008433	0	0.25000E-07	479807.5	3743099.6	441.1	0.00	1.70	6.52	YES	

L0008434	0	0.25000E-07	479804.0	3743098.9	441.1	0.00	1.70	6.52	YES
L0008435	0	0.25000E-07	479800.4	3743098.1	441.1	0.00	1.70	6.52	YES
L0008436	0	0.25000E-07	479796.8	3743097.4	441.1	0.00	1.70	6.52	YES
L0008437	0	0.25000E-07	479793.2	3743096.7	441.1	0.00	1.70	6.52	YES
L0008438	0	0.25000E-07	479789.6	3743095.9	441.1	0.00	1.70	6.52	YES
L0008439	0	0.25000E-07	479786.0	3743095.2	441.1	0.00	1.70	6.52	YES
L0008440	0	0.25000E-07	479782.5	3743094.5	441.1	0.00	1.70	6.52	YES
L0008441	0	0.25000E-07	479778.9	3743093.7	441.1	0.00	1.70	6.52	YES
L0008442	0	0.25000E-07	479775.2	3743093.8	441.1	0.00	1.70	6.52	YES
L0008443	0	0.25000E-07	479771.6	3743093.9	441.2	0.00	1.70	6.52	YES
L0008444	0	0.25000E-07	479767.9	3743093.9	441.2	0.00	1.70	6.52	YES
L0008445	0	0.25000E-07	479764.2	3743094.0	441.2	0.00	1.70	6.52	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
L0008446	0	0.25000E-07	479760.6	3743094.0	441.2	0.00	1.70	6.52	YES	
L0008447	0	0.25000E-07	479756.9	3743094.1	441.2	0.00	1.70	6.52	YES	
L0008448	0	0.25000E-07	479753.3	3743094.2	441.2	0.00	1.70	6.52	YES	
L0008449	0	0.25000E-07	479749.6	3743094.2	441.2	0.00	1.70	6.52	YES	
L0008450	0	0.25000E-07	479746.0	3743094.3	441.2	0.00	1.70	6.52	YES	
L0008451	0	0.25000E-07	479742.3	3743094.4	441.2	0.00	1.70	6.52	YES	
L0008452	0	0.25000E-07	479738.6	3743094.4	441.2	0.00	1.70	6.52	YES	
L0008453	0	0.25000E-07	479735.0	3743094.5	441.2	0.00	1.70	6.52	YES	
L0008454	0	0.25000E-07	479731.3	3743094.5	441.2	0.00	1.70	6.52	YES	
L0008455	0	0.25000E-07	479727.7	3743094.6	441.2	0.00	1.70	6.52	YES	
L0008456	0	0.25000E-07	479724.0	3743094.7	441.2	0.00	1.70	6.52	YES	
L0008457	0	0.25000E-07	479720.4	3743094.7	441.2	0.00	1.70	6.52	YES	
L0008458	0	0.25000E-07	479716.7	3743094.8	441.2	0.00	1.70	6.52	YES	
L0008459	0	0.25000E-07	479713.0	3743094.9	441.2	0.00	1.70	6.52	YES	
L0008460	0	0.25000E-07	479709.4	3743094.9	441.2	0.00	1.70	6.52	YES	
L0008461	0	0.25000E-07	479705.7	3743095.0	441.2	0.00	1.70	6.52	YES	
L0008462	0	0.25000E-07	479702.1	3743095.1	441.2	0.00	1.70	6.52	YES	
L0008463	0	0.25000E-07	479698.4	3743095.1	441.2	0.00	1.70	6.52	YES	
L0008464	0	0.25000E-07	479694.8	3743095.2	441.2	0.00	1.70	6.52	YES	
L0008465	0	0.25000E-07	479691.1	3743095.2	441.2	0.00	1.70	6.52	YES	
L0008466	0	0.25000E-07	479687.4	3743095.3	441.2	0.00	1.70	6.52	YES	
L0008467	0	0.25000E-07	479683.8	3743095.4	441.2	0.00	1.70	6.52	YES	
L0008468	0	0.25000E-07	479680.1	3743095.4	441.2	0.00	1.70	6.52	YES	
L0008469	0	0.25000E-07	479676.5	3743095.5	441.2	0.00	1.70	6.52	YES	
L0008470	0	0.25000E-07	479672.8	3743095.6	441.2	0.00	1.70	6.52	YES	

L0008471	0	0.25000E-07	479669.2	3743095.6	441.2	0.00	1.70	6.52	YES
L0008472	0	0.25000E-07	479665.5	3743095.7	441.2	0.00	1.70	6.52	YES
L0008473	0	0.25000E-07	479661.8	3743095.7	441.2	0.00	1.70	6.52	YES
L0008474	0	0.25000E-07	479658.2	3743095.8	441.2	0.00	1.70	6.52	YES
L0008475	0	0.25000E-07	479654.5	3743095.9	441.2	0.00	1.70	6.52	YES
L0008476	0	0.25000E-07	479650.9	3743095.9	441.2	0.00	1.70	6.52	YES
L0008477	0	0.25000E-07	479647.2	3743096.0	441.2	0.00	1.70	6.52	YES
L0008478	0	0.25000E-07	479643.6	3743096.1	441.2	0.00	1.70	6.52	YES
L0008479	0	0.25000E-07	479639.9	3743096.1	441.2	0.00	1.70	6.52	YES
L0008480	0	0.25000E-07	479636.2	3743096.2	441.2	0.00	1.70	6.52	YES
L0008481	0	0.25000E-07	479632.6	3743096.3	441.2	0.00	1.70	6.52	YES
L0008482	0	0.25000E-07	479628.9	3743096.3	441.2	0.00	1.70	6.52	YES
L0008483	0	0.25000E-07	479625.3	3743096.4	441.2	0.00	1.70	6.52	YES
L0008484	0	0.25000E-07	479621.6	3743096.4	441.3	0.00	1.70	6.52	YES
L0008485	0	0.25000E-07	479618.0	3743096.5	441.3	0.00	1.70	6.52	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0008486	0	0.25000E-07	479614.3	3743096.6	441.3	0.00	1.70	6.52	YES	
L0008487	0	0.25000E-07	479610.6	3743096.6	441.3	0.00	1.70	6.52	YES	
L0008488	0	0.25000E-07	479607.0	3743096.7	441.3	0.00	1.70	6.52	YES	
L0008489	0	0.25000E-07	479603.3	3743096.8	441.3	0.00	1.70	6.52	YES	
L0008490	0	0.25000E-07	479599.7	3743096.8	441.3	0.00	1.70	6.52	YES	
L0008491	0	0.25000E-07	479596.0	3743096.9	441.3	0.00	1.70	6.52	YES	
L0008492	0	0.25000E-07	479592.4	3743096.9	441.4	0.00	1.70	6.52	YES	
L0008493	0	0.25000E-07	479588.7	3743097.0	441.4	0.00	1.70	6.52	YES	
L0008494	0	0.25000E-07	479585.0	3743097.1	441.4	0.00	1.70	6.52	YES	
L0008495	0	0.25000E-07	479581.4	3743097.1	441.4	0.00	1.70	6.52	YES	
L0008496	0	0.25000E-07	479577.7	3743097.2	441.4	0.00	1.70	6.52	YES	
L0008497	0	0.25000E-07	479574.1	3743097.3	441.4	0.00	1.70	6.52	YES	
L0008498	0	0.25000E-07	479570.4	3743097.3	441.4	0.00	1.70	6.52	YES	
L0008499	0	0.25000E-07	479566.8	3743097.4	441.5	0.00	1.70	6.52	YES	
L0008500	0	0.25000E-07	479563.1	3743097.5	441.5	0.00	1.70	6.52	YES	
L0008501	0	0.25000E-07	479559.4	3743097.5	441.5	0.00	1.70	6.52	YES	
L0008502	0	0.25000E-07	479555.8	3743097.6	441.5	0.00	1.70	6.52	YES	
L0008503	0	0.25000E-07	479552.1	3743097.6	441.6	0.00	1.70	6.52	YES	
L0008504	0	0.25000E-07	479548.5	3743097.7	441.6	0.00	1.70	6.52	YES	
L0008505	0	0.17630E-07	479890.4	3742888.1	440.5	0.00	1.70	0.85	YES	
L0008506	0	0.17630E-07	479890.4	3742891.8	440.5	0.00	1.70	0.85	YES	
L0008507	0	0.17630E-07	479890.4	3742895.4	440.5	0.00	1.70	0.85	YES	

L0008508	0	0.17630E-07	479890.4	3742899.1	440.4	0.00	1.70	0.85	YES
L0008509	0	0.17630E-07	479890.4	3742902.7	440.4	0.00	1.70	0.85	YES
L0008510	0	0.17630E-07	479890.4	3742906.4	440.4	0.00	1.70	0.85	YES
L0008511	0	0.17630E-07	479890.4	3742910.0	440.4	0.00	1.70	0.85	YES
L0008512	0	0.17630E-07	479890.4	3742913.7	440.4	0.00	1.70	0.85	YES
L0008513	0	0.17630E-07	479890.4	3742917.4	440.4	0.00	1.70	0.85	YES
L0008514	0	0.17630E-07	479890.4	3742921.0	440.4	0.00	1.70	0.85	YES
L0008515	0	0.17630E-07	479890.4	3742924.7	440.4	0.00	1.70	0.85	YES
L0008516	0	0.17630E-07	479890.4	3742928.3	440.4	0.00	1.70	0.85	YES
L0008517	0	0.17630E-07	479890.4	3742932.0	440.4	0.00	1.70	0.85	YES
L0008518	0	0.17630E-07	479890.4	3742935.6	440.5	0.00	1.70	0.85	YES
L0008519	0	0.17630E-07	479890.4	3742939.3	440.5	0.00	1.70	0.85	YES
L0008520	0	0.17630E-07	479890.4	3742943.0	440.5	0.00	1.70	0.85	YES
L0008521	0	0.17630E-07	479890.4	3742946.6	440.5	0.00	1.70	0.85	YES
L0008522	0	0.17630E-07	479890.4	3742950.3	440.5	0.00	1.70	0.85	YES
L0008523	0	0.17630E-07	479890.5	3742953.9	440.5	0.00	1.70	0.85	YES
L0008524	0	0.17630E-07	479890.5	3742957.6	440.5	0.00	1.70	0.85	YES
L0008525	0	0.17630E-07	479890.5	3742961.2	440.5	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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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
L0008526	0	0.17630E-07	479890.5	3742964.9	440.5	0.00	1.70	0.85	YES	
L0008527	0	0.17630E-07	479890.5	3742968.6	440.5	0.00	1.70	0.85	YES	
L0008528	0	0.17630E-07	479890.5	3742972.2	440.5	0.00	1.70	0.85	YES	
L0008529	0	0.17630E-07	479890.5	3742975.9	440.5	0.00	1.70	0.85	YES	
L0008530	0	0.17630E-07	479890.5	3742979.5	440.5	0.00	1.70	0.85	YES	
L0008531	0	0.17630E-07	479890.5	3742983.2	440.5	0.00	1.70	0.85	YES	
L0008532	0	0.17630E-07	479890.5	3742986.9	440.5	0.00	1.70	0.85	YES	
L0008533	0	0.17630E-07	479890.5	3742990.5	440.5	0.00	1.70	0.85	YES	
L0008534	0	0.17630E-07	479890.5	3742994.2	440.5	0.00	1.70	0.85	YES	
L0008535	0	0.17630E-07	479890.5	3742997.8	440.6	0.00	1.70	0.85	YES	
L0008536	0	0.17630E-07	479890.5	3743001.5	440.6	0.00	1.70	0.85	YES	
L0008537	0	0.17630E-07	479890.5	3743005.1	440.6	0.00	1.70	0.85	YES	
L0008538	0	0.17630E-07	479890.5	3743008.8	440.6	0.00	1.70	0.85	YES	
L0008539	0	0.17630E-07	479890.5	3743012.5	440.6	0.00	1.70	0.85	YES	
L0008540	0	0.17630E-07	479890.5	3743016.1	440.6	0.00	1.70	0.85	YES	
L0008541	0	0.17630E-07	479890.5	3743019.8	440.6	0.00	1.70	0.85	YES	
L0008542	0	0.17630E-07	479890.5	3743023.4	440.6	0.00	1.70	0.85	YES	
L0008543	0	0.17630E-07	479890.5	3743027.1	440.7	0.00	1.70	0.85	YES	
L0008544	0	0.17630E-07	479890.5	3743030.7	440.7	0.00	1.70	0.85	YES	

L0008545	0	0.17630E-07	479890.5	3743034.4	440.7	0.00	1.70	0.85	YES
L0008546	0	0.17630E-07	479890.5	3743038.1	440.7	0.00	1.70	0.85	YES
L0008547	0	0.17630E-07	479890.5	3743041.7	440.7	0.00	1.70	0.85	YES
L0008548	0	0.17630E-07	479890.5	3743045.4	440.8	0.00	1.70	0.85	YES
L0008549	0	0.17630E-07	479890.5	3743049.0	440.8	0.00	1.70	0.85	YES
L0008550	0	0.17630E-07	479890.5	3743052.7	440.8	0.00	1.70	0.85	YES
L0008551	0	0.17630E-07	479890.6	3743056.3	440.8	0.00	1.70	0.85	YES
L0008552	0	0.17630E-07	479890.6	3743060.0	440.8	0.00	1.70	0.85	YES
L0008553	0	0.17630E-07	479890.6	3743063.7	440.9	0.00	1.70	0.85	YES
L0008554	0	0.17630E-07	479890.6	3743067.3	440.9	0.00	1.70	0.85	YES
L0008555	0	0.17630E-07	479890.6	3743071.0	440.9	0.00	1.70	0.85	YES
L0008556	0	0.17630E-07	479890.6	3743074.6	440.9	0.00	1.70	0.85	YES
L0008557	0	0.17630E-07	479890.6	3743078.3	440.9	0.00	1.70	0.85	YES
L0008558	0	0.17630E-07	479890.6	3743082.0	440.9	0.00	1.70	0.85	YES
L0008559	0	0.17630E-07	479890.6	3743085.6	440.9	0.00	1.70	0.85	YES
L0008560	0	0.17630E-07	479890.6	3743089.3	441.0	0.00	1.70	0.85	YES
L0008561	0	0.17630E-07	479890.6	3743092.9	441.0	0.00	1.70	0.85	YES
L0008562	0	0.17630E-07	479890.6	3743096.6	441.0	0.00	1.70	0.85	YES
L0008563	0	0.17630E-07	479890.6	3743100.2	441.0	0.00	1.70	0.85	YES
L0008564	0	0.35120E-07	479890.2	3743105.4	441.0	0.00	1.70	0.85	YES
L0008565	0	0.35120E-07	479890.3	3743109.1	441.0	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
L0008566	0	0.35120E-07	479890.4	3743112.7	441.0	0.00	1.70	0.85	YES	
L0008567	0	0.35120E-07	479890.5	3743116.4	441.0	0.00	1.70	0.85	YES	
L0008568	0	0.35120E-07	479890.6	3743120.0	441.0	0.00	1.70	0.85	YES	
L0008569	0	0.35120E-07	479890.7	3743123.7	441.0	0.00	1.70	0.85	YES	
L0008570	0	0.35120E-07	479890.8	3743127.3	441.0	0.00	1.70	0.85	YES	
L0008571	0	0.35120E-07	479890.9	3743131.0	441.0	0.00	1.70	0.85	YES	
L0008572	0	0.35120E-07	479890.9	3743134.7	441.0	0.00	1.70	0.85	YES	
L0008573	0	0.35120E-07	479891.0	3743138.3	441.0	0.00	1.70	0.85	YES	
L0008574	0	0.35120E-07	479891.1	3743142.0	441.0	0.00	1.70	0.85	YES	
L0008575	0	0.35120E-07	479891.2	3743145.6	440.9	0.00	1.70	0.85	YES	
L0008576	0	0.35120E-07	479891.3	3743149.3	440.9	0.00	1.70	0.85	YES	
L0008577	0	0.35120E-07	479891.4	3743152.9	440.9	0.00	1.70	0.85	YES	
L0008578	0	0.35120E-07	479891.5	3743156.6	440.9	0.00	1.70	0.85	YES	
L0008579	0	0.35120E-07	479891.6	3743160.2	440.9	0.00	1.70	0.85	YES	
L0008580	0	0.35120E-07	479891.7	3743163.9	440.9	0.00	1.70	0.85	YES	
L0008581	0	0.35120E-07	479891.8	3743167.6	440.9	0.00	1.70	0.85	YES	

L0008582	0	0.35120E-07	479891.9	3743171.2	440.9	0.00	1.70	0.85	YES
L0008583	0	0.35120E-07	479892.0	3743174.9	440.9	0.00	1.70	0.85	YES
L0008584	0	0.35120E-07	479892.1	3743178.5	440.9	0.00	1.70	0.85	YES
L0008585	0	0.35120E-07	479892.2	3743182.2	440.9	0.00	1.70	0.85	YES
L0008586	0	0.35120E-07	479892.3	3743185.8	440.9	0.00	1.70	0.85	YES
L0008587	0	0.35120E-07	479892.4	3743189.5	440.8	0.00	1.70	0.85	YES
L0008588	0	0.35120E-07	479892.5	3743193.2	440.8	0.00	1.70	0.85	YES
L0008589	0	0.35120E-07	479892.6	3743196.8	440.8	0.00	1.70	0.85	YES
L0008590	0	0.35120E-07	479892.6	3743200.5	440.8	0.00	1.70	0.85	YES
L0008591	0	0.35120E-07	479892.7	3743204.1	440.8	0.00	1.70	0.85	YES
L0008592	0	0.35120E-07	479892.8	3743207.8	440.8	0.00	1.70	0.85	YES
L0008593	0	0.35120E-07	479892.9	3743211.4	440.8	0.00	1.70	0.85	YES
L0008594	0	0.35120E-07	479893.0	3743215.1	440.8	0.00	1.70	0.85	YES
L0008595	0	0.35120E-07	479893.1	3743218.8	440.8	0.00	1.70	0.85	YES
L0008596	0	0.35120E-07	479893.2	3743222.4	440.8	0.00	1.70	0.85	YES
L0008597	0	0.35120E-07	479893.3	3743226.1	440.8	0.00	1.70	0.85	YES
L0008598	0	0.35120E-07	479893.4	3743229.7	440.8	0.00	1.70	0.85	YES
L0008599	0	0.35120E-07	479893.5	3743233.4	440.8	0.00	1.70	0.85	YES
L0008600	0	0.35120E-07	479893.6	3743237.0	440.8	0.00	1.70	0.85	YES
L0008601	0	0.35120E-07	479893.7	3743240.7	440.8	0.00	1.70	0.85	YES
L0008602	0	0.35120E-07	479893.8	3743244.3	440.7	0.00	1.70	0.85	YES
L0008603	0	0.35120E-07	479893.9	3743248.0	440.7	0.00	1.70	0.85	YES
L0008604	0	0.35120E-07	479894.0	3743251.7	440.7	0.00	1.70	0.85	YES
L0008605	0	0.35120E-07	479894.1	3743255.3	440.7	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
L0008606	0	0.35120E-07	479894.2	3743259.0	440.7	0.00	1.70	0.85	YES	
L0008607	0	0.35120E-07	479894.3	3743262.6	440.7	0.00	1.70	0.85	YES	
L0008608	0	0.35120E-07	479894.3	3743266.3	440.7	0.00	1.70	0.85	YES	
L0008609	0	0.35120E-07	479894.4	3743269.9	440.7	0.00	1.70	0.85	YES	
L0008610	0	0.35120E-07	479894.5	3743273.6	440.7	0.00	1.70	0.85	YES	
L0008611	0	0.35120E-07	479894.6	3743277.3	440.6	0.00	1.70	0.85	YES	
L0008612	0	0.35120E-07	479894.7	3743280.9	440.6	0.00	1.70	0.85	YES	
L0008613	0	0.35120E-07	479894.8	3743284.6	440.6	0.00	1.70	0.85	YES	
L0008614	0	0.35120E-07	479894.9	3743288.2	440.6	0.00	1.70	0.85	YES	
L0008615	0	0.35120E-07	479895.0	3743291.9	440.6	0.00	1.70	0.85	YES	
L0008616	0	0.35120E-07	479895.1	3743295.5	440.6	0.00	1.70	0.85	YES	
L0008617	0	0.35120E-07	479895.2	3743299.2	440.6	0.00	1.70	0.85	YES	
L0008618	0	0.35120E-07	479895.3	3743302.8	440.6	0.00	1.70	0.85	YES	



L0008619	0	0.35120E-07	479895.4	3743306.5	440.6	0.00	1.70	0.85	YES
L0008620	0	0.35120E-07	479895.5	3743310.2	440.5	0.00	1.70	0.85	YES
L0008621	0	0.35120E-07	479895.6	3743313.8	440.5	0.00	1.70	0.85	YES
L0008622	0	0.35120E-07	479895.7	3743317.5	440.5	0.00	1.70	0.85	YES
L0008623	0	0.35120E-07	479895.8	3743321.1	440.5	0.00	1.70	0.85	YES
L0008624	0	0.35120E-07	479895.9	3743324.8	440.5	0.00	1.70	0.85	YES
L0008625	0	0.35120E-07	479896.0	3743328.4	440.5	0.00	1.70	0.85	YES
L0008626	0	0.35120E-07	479896.0	3743332.1	440.4	0.00	1.70	0.85	YES
L0008627	0	0.35120E-07	479896.1	3743335.8	440.4	0.00	1.70	0.85	YES
L0008628	0	0.35120E-07	479897.1	3743339.3	440.4	0.00	1.70	0.85	YES
L0008629	0	0.35120E-07	479898.1	3743342.8	440.4	0.00	1.70	0.85	YES
L0008630	0	0.35120E-07	479899.1	3743346.3	440.4	0.00	1.70	0.85	YES
L0008631	0	0.35120E-07	479900.1	3743349.8	440.4	0.00	1.70	0.85	YES
L0008632	0	0.35120E-07	479901.1	3743353.3	440.3	0.00	1.70	0.85	YES
L0008633	0	0.35120E-07	479902.1	3743356.9	440.3	0.00	1.70	0.85	YES
L0008634	0	0.35120E-07	479903.1	3743360.4	440.3	0.00	1.70	0.85	YES
L0008635	0	0.35120E-07	479904.1	3743363.9	440.2	0.00	1.70	0.85	YES
L0008636	0	0.35120E-07	479904.1	3743367.6	440.2	0.00	1.70	0.85	YES
L0008637	0	0.35120E-07	479904.2	3743371.2	440.2	0.00	1.70	0.85	YES
L0008638	0	0.35120E-07	479904.3	3743374.9	440.2	0.00	1.70	0.85	YES
L0008639	0	0.35120E-07	479904.3	3743378.5	440.1	0.00	1.70	0.85	YES
L0008640	0	0.35120E-07	479904.4	3743382.2	440.1	0.00	1.70	0.85	YES
L0008641	0	0.35120E-07	479904.5	3743385.9	440.1	0.00	1.70	0.85	YES
L0008642	0	0.35120E-07	479904.5	3743389.5	440.0	0.00	1.70	0.85	YES
L0008643	0	0.35120E-07	479904.6	3743393.2	440.0	0.00	1.70	0.85	YES
L0008644	0	0.35120E-07	479904.6	3743396.8	440.0	0.00	1.70	0.85	YES
L0008645	0	0.35120E-07	479904.7	3743400.5	439.9	0.00	1.70	0.85	YES

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X Y		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0008646	0	0.35120E-07	479904.8	3743404.1	439.9	0.00	1.70	0.85	YES	
L0008647	0	0.35120E-07	479904.8	3743407.8	439.9	0.00	1.70	0.85	YES	
L0008648	0	0.35120E-07	479904.9	3743411.5	439.9	0.00	1.70	0.85	YES	
L0008649	0	0.35120E-07	479904.9	3743415.1	439.9	0.00	1.70	0.85	YES	
L0008650	0	0.35120E-07	479905.0	3743418.8	439.9	0.00	1.70	0.85	YES	
L0008651	0	0.35120E-07	479905.1	3743422.4	439.9	0.00	1.70	0.85	YES	
L0008652	0	0.35120E-07	479905.1	3743426.1	439.9	0.00	1.70	0.85	YES	
L0008653	0	0.35120E-07	479905.2	3743429.7	439.8	0.00	1.70	0.85	YES	
L0008654	0	0.35120E-07	479905.2	3743433.4	439.8	0.00	1.70	0.85	YES	
L0008655	0	0.35120E-07	479905.3	3743437.1	439.8	0.00	1.70	0.85	YES	

L0008656	0	0.35120E-07	479905.4	3743440.7	439.9	0.00	1.70	0.85	YES
L0008657	0	0.35120E-07	479905.4	3743444.4	439.9	0.00	1.70	0.85	YES
L0008658	0	0.35120E-07	479905.5	3743448.0	439.9	0.00	1.70	0.85	YES
L0008659	0	0.35120E-07	479905.6	3743451.7	439.9	0.00	1.70	0.85	YES
L0008660	0	0.35120E-07	479905.6	3743455.3	439.9	0.00	1.70	0.85	YES
L0008661	0	0.35120E-07	479905.7	3743459.0	439.9	0.00	1.70	0.85	YES
L0008662	0	0.35120E-07	479905.7	3743462.7	439.9	0.00	1.70	0.85	YES
L0008663	0	0.35120E-07	479905.8	3743466.3	440.0	0.00	1.70	0.85	YES
L0008664	0	0.35120E-07	479905.9	3743470.0	439.9	0.00	1.70	0.85	YES
L0008665	0	0.35120E-07	479905.9	3743473.6	439.9	0.00	1.70	0.85	YES
L0008666	0	0.35120E-07	479906.0	3743477.3	439.9	0.00	1.70	0.85	YES
L0008667	0	0.35120E-07	479906.0	3743480.9	439.9	0.00	1.70	0.85	YES
L0008668	0	0.35120E-07	479906.1	3743484.6	439.9	0.00	1.70	0.85	YES
L0008669	0	0.35120E-07	479906.2	3743488.2	439.9	0.00	1.70	0.85	YES
L0008670	0	0.35120E-07	479906.2	3743491.9	439.9	0.00	1.70	0.85	YES
L0008671	0	0.35120E-07	479906.3	3743495.6	439.9	0.00	1.70	0.85	YES
L0008672	0	0.35120E-07	479906.4	3743499.2	439.9	0.00	1.70	0.85	YES
L0008673	0	0.35120E-07	479906.4	3743502.9	439.8	0.00	1.70	0.85	YES
L0008674	0	0.35120E-07	479906.5	3743506.5	439.8	0.00	1.70	0.85	YES
L0008675	0	0.35120E-07	479906.5	3743510.2	439.8	0.00	1.70	0.85	YES
L0008676	0	0.35120E-07	479906.6	3743513.8	439.8	0.00	1.70	0.85	YES
L0008677	0	0.35120E-07	479906.7	3743517.5	439.8	0.00	1.70	0.85	YES
L0008678	0	0.35120E-07	479906.7	3743521.2	439.8	0.00	1.70	0.85	YES
L0008679	0	0.35120E-07	479906.8	3743524.8	439.8	0.00	1.70	0.85	YES
L0008680	0	0.35120E-07	479906.8	3743528.5	439.8	0.00	1.70	0.85	YES
L0008681	0	0.35120E-07	479906.9	3743532.1	439.8	0.00	1.70	0.85	YES
L0008682	0	0.35120E-07	479907.0	3743535.8	439.8	0.00	1.70	0.85	YES
L0008683	0	0.35120E-07	479907.0	3743539.4	439.8	0.00	1.70	0.85	YES
L0008684	0	0.35120E-07	479907.1	3743543.1	439.8	0.00	1.70	0.85	YES
L0008685	0	0.35120E-07	479907.2	3743546.8	439.8	0.00	1.70	0.85	YES

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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
L0008686	0	0.35120E-07	479907.2	3743550.4	439.8	0.00	1.70	0.85	YES		
L0008687	0	0.35120E-07	479907.3	3743554.1	439.7	0.00	1.70	0.85	YES		
L0008688	0	0.35120E-07	479907.3	3743557.7	439.7	0.00	1.70	0.85	YES		
L0008689	0	0.35120E-07	479907.4	3743561.4	439.7	0.00	1.70	0.85	YES		
L0008690	0	0.35120E-07	479907.7	3743565.0	439.7	0.00	1.70	0.85	YES		

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\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs								
-----	-----								
ALL	L0008286	, L0008287	, L0008288	, L0008289	, L0008290	, L0008291	, L0008292	, L0008293	,
	L0008294	, L0008295	, L0008296	, L0008297	, L0008298	, L0008299	, L0008300	, L0008301	,
	L0008302	, L0008303	, L0008304	, L0008305	, L0008306	, L0008307	, L0008308	, L0008309	,
	L0008310	, L0008311	, L0008312	, L0008313	, L0008314	, L0008315	, L0008316	, L0008317	,
	L0008318	, L0008319	, L0008320	, L0008321	, L0008322	, L0008323	, L0008324	, L0008325	,
	L0008326	, L0008327	, L0008328	, L0008329	, L0008330	, L0008331	, L0008332	, L0008333	,
	L0008334	, L0008335	, L0008336	, L0008337	, L0008338	, L0008339	, L0008340	, L0008341	,
	L0008342	, L0008343	, L0008344	, L0008345	, L0008346	, L0008347	, L0008348	, L0008349	,
	L0008350	, L0008351	, L0008352	, L0008353	, L0008354	, L0008355	, L0008356	, L0008357	,
	L0008358	, L0008359	, L0008360	, L0008361	, L0008362	, L0008363	, L0008364	, L0008365	,
	L0008366	, L0008367	, L0008368	, L0008369	, L0008370	, L0008371	, L0008372	, L0008373	,
	L0008374	, L0008375	, L0008376	, L0008377	, L0008378	, L0008379	, L0008380	, L0008381	,
	L0008382	, L0008383	, L0008384	, L0008385	, L0008386	, L0008387	, L0008388	, L0008389	,
	L0008390	, L0008391	, L0008392	, L0008393	, L0008394	, L0008395	, L0008396	, L0008397	,
	L0008398	, L0008399	, L0008400	, L0008401	, L0008402	, L0008403	, L0008404	, L0008405	,
	L0008406	, L0008407	, L0008408	, L0008409	, L0008410	, L0008411	, L0008412	, L0008413	,
	L0008414	, L0008415	, L0008416	, L0008417	, L0008418	, L0008419	, L0008420	, L0008421	,
	L0008422	, L0008423	, L0008424	, L0008425	, L0008426	, L0008427	, L0008428	, L0008429	,
	L0008430	, L0008431	, L0008432	, L0008433	, L0008434	, L0008435	, L0008436	, L0008437	,
	L0008438	, L0008439	, L0008440	, L0008441	, L0008442	, L0008443	, L0008444	, L0008445	,

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\*\*\* MODELOPTs:    RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID  
-----

SOURCE IDs  
-----

L0008446	,	L0008447	,	L0008448	,	L0008449	,	L0008450	,	L0008451	,	L0008452	,	L0008453	,
L0008454	,	L0008455	,	L0008456	,	L0008457	,	L0008458	,	L0008459	,	L0008460	,	L0008461	,
L0008462	,	L0008463	,	L0008464	,	L0008465	,	L0008466	,	L0008467	,	L0008468	,	L0008469	,
L0008470	,	L0008471	,	L0008472	,	L0008473	,	L0008474	,	L0008475	,	L0008476	,	L0008477	,
L0008478	,	L0008479	,	L0008480	,	L0008481	,	L0008482	,	L0008483	,	L0008484	,	L0008485	,
L0008486	,	L0008487	,	L0008488	,	L0008489	,	L0008490	,	L0008491	,	L0008492	,	L0008493	,
L0008494	,	L0008495	,	L0008496	,	L0008497	,	L0008498	,	L0008499	,	L0008500	,	L0008501	,
L0008502	,	L0008503	,	L0008504	,	L0008505	,	L0008506	,	L0008507	,	L0008508	,	L0008509	,
L0008510	,	L0008511	,	L0008512	,	L0008513	,	L0008514	,	L0008515	,	L0008516	,	L0008517	,
L0008518	,	L0008519	,	L0008520	,	L0008521	,	L0008522	,	L0008523	,	L0008524	,	L0008525	,
L0008526	,	L0008527	,	L0008528	,	L0008529	,	L0008530	,	L0008531	,	L0008532	,	L0008533	,
L0008534	,	L0008535	,	L0008536	,	L0008537	,	L0008538	,	L0008539	,	L0008540	,	L0008541	,
L0008542	,	L0008543	,	L0008544	,	L0008545	,	L0008546	,	L0008547	,	L0008548	,	L0008549	,
L0008550	,	L0008551	,	L0008552	,	L0008553	,	L0008554	,	L0008555	,	L0008556	,	L0008557	,
L0008558	,	L0008559	,	L0008560	,	L0008561	,	L0008562	,	L0008563	,	L0008564	,	L0008565	,
L0008566	,	L0008567	,	L0008568	,	L0008569	,	L0008570	,	L0008571	,	L0008572	,	L0008573	,
L0008574	,	L0008575	,	L0008576	,	L0008577	,	L0008578	,	L0008579	,	L0008580	,	L0008581	,
L0008582	,	L0008583	,	L0008584	,	L0008585	,	L0008586	,	L0008587	,	L0008588	,	L0008589	,
L0008590	,	L0008591	,	L0008592	,	L0008593	,	L0008594	,	L0008595	,	L0008596	,	L0008597	,
L0008598	,	L0008599	,	L0008600	,	L0008601	,	L0008602	,	L0008603	,	L0008604	,	L0008605	,

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\*\*\* MODELOPTs:    RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs							
-----	-----							
L0008606	, L0008607	, L0008608	, L0008609	, L0008610	, L0008611	, L0008612	, L0008613	,
L0008614	, L0008615	, L0008616	, L0008617	, L0008618	, L0008619	, L0008620	, L0008621	,
L0008622	, L0008623	, L0008624	, L0008625	, L0008626	, L0008627	, L0008628	, L0008629	,
L0008630	, L0008631	, L0008632	, L0008633	, L0008634	, L0008635	, L0008636	, L0008637	,
L0008638	, L0008639	, L0008640	, L0008641	, L0008642	, L0008643	, L0008644	, L0008645	,
L0008646	, L0008647	, L0008648	, L0008649	, L0008650	, L0008651	, L0008652	, L0008653	,
L0008654	, L0008655	, L0008656	, L0008657	, L0008658	, L0008659	, L0008660	, L0008661	,
L0008662	, L0008663	, L0008664	, L0008665	, L0008666	, L0008667	, L0008668	, L0008669	,
L0008670	, L0008671	, L0008672	, L0008673	, L0008674	, L0008675	, L0008676	, L0008677	,
L0008678	, L0008679	, L0008680	, L0008681	, L0008682	, L0008683	, L0008684	, L0008685	,
L0008686	, L0008687	, L0008688	, L0008689	, L0008690	, STCK1	, STCK2	, STCK3	,
STCK4	, STCK5	, STCK6	,					

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\*\*\* MODELOPTs:    RegDFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
L0008293	2189641.	L0008286	, L0008287	, L0008288	, L0008289	, L0008290	, L0008291	, L0008292	,

L0008294 , L0008295 , L0008296 , L0008297 , L0008298 , L0008299 , L0008300 , L0008301 ,  
 L0008302 , L0008303 , L0008304 , L0008305 , L0008306 , L0008307 , L0008308 , L0008309 ,  
 L0008310 , L0008311 , L0008312 , L0008313 , L0008314 , L0008315 , L0008316 , L0008317 ,  
 L0008318 , L0008319 , L0008320 , L0008321 , L0008322 , L0008323 , L0008324 , L0008325 ,  
 L0008326 , L0008327 , L0008328 , L0008329 , L0008330 , L0008331 , L0008332 , L0008333 ,  
 L0008334 , L0008335 , L0008336 , L0008337 , L0008338 , L0008339 , L0008340 , L0008341 ,  
 L0008342 , L0008343 , L0008344 , L0008345 , L0008346 , L0008347 , L0008348 , L0008349 ,  
 L0008350 , L0008351 , L0008352 , L0008353 , L0008354 , L0008355 , L0008356 , L0008357 ,  
 L0008358 , L0008359 , L0008360 , L0008361 , L0008362 , L0008363 , L0008364 , L0008365 ,  
 L0008366 , L0008367 , L0008368 , L0008369 , L0008370 , L0008371 , L0008372 , L0008373 ,  
 L0008374 , L0008375 , L0008376 , L0008377 , L0008378 , L0008379 , L0008380 , L0008381 ,  
 L0008382 , L0008383 , L0008384 , L0008385 , L0008386 , L0008387 , L0008388 , L0008389 ,  
 L0008390 , L0008391 , L0008392 , L0008393 , L0008394 , L0008395 , L0008396 , L0008397 ,  
 L0008398 , L0008399 , L0008400 , L0008401 , L0008402 , L0008403 , L0008404 , L0008405 ,  
 L0008406 , L0008407 , L0008408 , L0008409 , L0008410 , L0008411 , L0008412 , L0008413 ,  
 L0008414 , L0008415 , L0008416 , L0008417 , L0008418 , L0008419 , L0008420 , L0008421 ,  
 L0008422 , L0008423 , L0008424 , L0008425 , L0008426 , L0008427 , L0008428 , L0008429 ,  
 L0008430 , L0008431 , L0008432 , L0008433 , L0008434 , L0008435 , L0008436 , L0008437 ,  
 L0008438 , L0008439 , L0008440 , L0008441 , L0008442 , L0008443 , L0008444 , L0008445 ,

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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID    URBAN POP    SOURCE IDs  
 -----    -----    -----

L0008446 , L0008447 , L0008448 , L0008449 , L0008450 , L0008451 , L0008452 , L0008453 ,  
 L0008454 , L0008455 , L0008456 , L0008457 , L0008458 , L0008459 , L0008460 , L0008461 ,  
 L0008462 , L0008463 , L0008464 , L0008465 , L0008466 , L0008467 , L0008468 , L0008469 ,  
 L0008470 , L0008471 , L0008472 , L0008473 , L0008474 , L0008475 , L0008476 , L0008477 ,  
 L0008478 , L0008479 , L0008480 , L0008481 , L0008482 , L0008483 , L0008484 , L0008485 ,  
 L0008486 , L0008487 , L0008488 , L0008489 , L0008490 , L0008491 , L0008492 , L0008493 ,  
 L0008494 , L0008495 , L0008496 , L0008497 , L0008498 , L0008499 , L0008500 , L0008501 ,  
 L0008502 , L0008503 , L0008504 , L0008505 , L0008506 , L0008507 , L0008508 , L0008509 ,  
 L0008510 , L0008511 , L0008512 , L0008513 , L0008514 , L0008515 , L0008516 , L0008517 ,  
 L0008518 , L0008519 , L0008520 , L0008521 , L0008522 , L0008523 , L0008524 , L0008525 ,  
 L0008526 , L0008527 , L0008528 , L0008529 , L0008530 , L0008531 , L0008532 , L0008533 ,  
 L0008534 , L0008535 , L0008536 , L0008537 , L0008538 , L0008539 , L0008540 , L0008541 ,  
 L0008542 , L0008543 , L0008544 , L0008545 , L0008546 , L0008547 , L0008548 , L0008549 ,  
 L0008550 , L0008551 , L0008552 , L0008553 , L0008554 , L0008555 , L0008556 , L0008557 ,  
 L0008558 , L0008559 , L0008560 , L0008561 , L0008562 , L0008563 , L0008564 , L0008565 ,  
 L0008566 , L0008567 , L0008568 , L0008569 , L0008570 , L0008571 , L0008572 , L0008573 ,  
 L0008574 , L0008575 , L0008576 , L0008577 , L0008578 , L0008579 , L0008580 , L0008581 ,  
 L0008582 , L0008583 , L0008584 , L0008585 , L0008586 , L0008587 , L0008588 , L0008589 ,  
 L0008590 , L0008591 , L0008592 , L0008593 , L0008594 , L0008595 , L0008596 , L0008597 ,  
 L0008598 , L0008599 , L0008600 , L0008601 , L0008602 , L0008603 , L0008604 , L0008605 ,

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 \*\*\* MODELOPTs:    RegDEFAULT CONC    ELEV    URBAN    ADJ\_U\*      PAGE    19

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----

L0008606 , L0008607 , L0008608 , L0008609 , L0008610 , L0008611 , L0008612 , L0008613 ,  
 L0008614 , L0008615 , L0008616 , L0008617 , L0008618 , L0008619 , L0008620 , L0008621 ,  
 L0008622 , L0008623 , L0008624 , L0008625 , L0008626 , L0008627 , L0008628 , L0008629 ,  
 L0008630 , L0008631 , L0008632 , L0008633 , L0008634 , L0008635 , L0008636 , L0008637 ,  
 L0008638 , L0008639 , L0008640 , L0008641 , L0008642 , L0008643 , L0008644 , L0008645 ,  
 L0008646 , L0008647 , L0008648 , L0008649 , L0008650 , L0008651 , L0008652 , L0008653 ,  
 L0008654 , L0008655 , L0008656 , L0008657 , L0008658 , L0008659 , L0008660 , L0008661 ,  
 L0008662 , L0008663 , L0008664 , L0008665 , L0008666 , L0008667 , L0008668 , L0008669 ,  
 L0008670 , L0008671 , L0008672 , L0008673 , L0008674 , L0008675 , L0008676 , L0008677 ,  
 L0008678 , L0008679 , L0008680 , L0008681 , L0008682 , L0008683 , L0008684 , L0008685 ,  
 L0008686 , L0008687 , L0008688 , L0008689 , L0008690 , STCK1 , STCK2 , STCK3 ,  
 STCK4 , STCK5 , STCK6 ,

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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,	228.2,	195.0,	-14.3,	47.4,	2	14.0,	247.0,	219.2,	-35.2,	58.2,
3	14.0,	258.3,	236.8,	-55.0,	67.2,	4	14.0,	261.7,	247.2,	-73.2,	74.2,
5	14.0,	257.2,	250.1,	-89.1,	78.9,	6	14.0,	244.9,	246.2,	-103.1,	81.2,
7	14.0,	225.2,	238.8,	-117.9,	81.1,	8	14.0,	198.6,	224.0,	-129.1,	78.5,
9	14.0,	186.4,	205.0,	-136.4,	81.2,	10	14.0,	195.0,	228.2,	-161.5,	83.2,
11	14.0,	219.2,	247.0,	-181.7,	74.4,	12	14.0,	236.8,	258.3,	-196.3,	63.4,
13	14.0,	247.2,	261.7,	-205.0,	50.5,	14	14.0,	250.1,	257.2,	-207.5,	36.0,
15	14.0,	246.2,	244.9,	-203.7,	20.0,	16	14.0,	238.8,	225.2,	-193.7,	1.5,
17	14.0,	224.0,	198.6,	-177.8,	-17.1,	18	14.0,	205.0,	186.4,	-174.4,	-33.9,
19	14.0,	228.2,	195.0,	-180.7,	-47.4,	20	14.0,	247.0,	219.2,	-184.0,	-58.2,
21	14.0,	258.3,	236.8,	-181.8,	-67.2,	22	14.0,	261.7,	247.2,	-174.1,	-74.2,
23	14.0,	257.2,	250.1,	-161.0,	-78.9,	24	14.0,	244.9,	246.2,	-143.1,	-81.2,
25	14.0,	225.2,	238.8,	-120.8,	-81.1,	26	14.0,	198.6,	224.0,	-94.9,	-78.5,
27	14.0,	186.4,	205.0,	-68.6,	-81.2,	28	14.0,	195.0,	228.2,	-66.7,	-83.2,
29	14.0,	219.2,	247.0,	-65.3,	-74.4,	30	14.0,	236.8,	258.3,	-61.9,	-63.4,
31	14.0,	247.2,	261.7,	-56.7,	-50.5,	32	14.0,	250.1,	257.2,	-49.7,	-36.0,



33	14.0,	246.2,	244.9,	-41.2,	-20.0,	34	14.0,	238.8,	225.2,	-31.5,	-1.5,
35	14.0,	224.0,	198.6,	-20.8,	17.1,	36	14.0,	205.0,	186.4,	-12.0,	33.9,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-3.1,	-18.5,	2	14.0,	247.0,	219.2,	-12.8,	-4.8,
3	14.0,	258.3,	236.8,	-22.0,	9.1,	4	14.0,	261.7,	247.2,	-30.5,	22.7,
5	14.0,	257.2,	250.1,	-38.1,	35.6,	6	14.0,	244.9,	246.2,	-45.4,	47.4,
7	14.0,	225.2,	238.8,	-55.2,	57.8,	8	14.0,	198.6,	224.0,	-63.3,	66.5,
9	14.0,	186.4,	205.0,	-69.5,	80.7,	10	14.0,	195.0,	228.2,	-95.6,	94.3,
11	14.0,	219.2,	247.0,	-118.7,	96.9,	12	14.0,	236.8,	258.3,	-138.2,	96.5,
13	14.0,	247.2,	261.7,	-153.5,	93.1,	14	14.0,	250.1,	257.2,	-164.2,	86.9,
15	14.0,	246.2,	244.9,	-169.9,	77.7,	16	14.0,	238.8,	225.2,	-170.4,	64.2,
17	14.0,	224.0,	198.6,	-165.7,	48.7,	18	14.0,	205.0,	186.4,	-173.9,	33.0,
19	14.0,	228.2,	195.0,	-191.8,	18.5,	20	14.0,	247.0,	219.2,	-206.5,	4.8,
21	14.0,	258.3,	236.8,	-214.9,	-9.1,	22	14.0,	261.7,	247.2,	-216.7,	-22.7,
23	14.0,	257.2,	250.1,	-212.0,	-35.6,	24	14.0,	244.9,	246.2,	-200.8,	-47.4,
25	14.0,	225.2,	238.8,	-183.5,	-57.8,	26	14.0,	198.6,	224.0,	-160.7,	-66.5,
27	14.0,	186.4,	205.0,	-135.5,	-80.7,	28	14.0,	195.0,	228.2,	-132.6,	-94.3,
29	14.0,	219.2,	247.0,	-128.3,	-96.9,	30	14.0,	236.8,	258.3,	-120.1,	-96.5,
31	14.0,	247.2,	261.7,	-108.2,	-93.1,	32	14.0,	250.1,	257.2,	-93.0,	-86.9,
33	14.0,	246.2,	244.9,	-75.0,	-77.7,	34	14.0,	238.8,	225.2,	-54.8,	-64.2,
35	14.0,	224.0,	198.6,	-32.8,	-48.7,	36	14.0,	205.0,	186.4,	-12.5,	-33.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	22.6,	18.9,	2	14.0,	247.0,	219.2,	6.1,	36.5,
3	14.0,	258.3,	236.8,	-10.6,	53.0,	4	14.0,	261.7,	247.2,	-27.0,	67.9,
5	14.0,	257.2,	250.1,	-42.5,	80.8,	6	14.0,	244.9,	246.2,	-57.6,	91.2,
7	14.0,	225.2,	238.8,	-74.8,	98.8,	8	14.0,	198.6,	224.0,	-89.7,	103.4,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	14.0,	219.2,	247.0,	-160.0,	115.7,	12	14.0,	236.8,	258.3,	-182.2,	107.8,
13	14.0,	247.2,	261.7,	-198.8,	96.6,	14	14.0,	250.1,	257.2,	-209.4,	82.6,
15	14.0,	246.2,	244.9,	-213.6,	65.5,	16	14.0,	238.8,	225.2,	-211.4,	44.6,
17	14.0,	224.0,	198.6,	-202.7,	22.3,	18	14.0,	205.0,	186.4,	-205.7,	0.6,
19	14.0,	228.2,	195.0,	-217.5,	-18.9,	20	14.0,	247.0,	219.2,	-225.3,	-36.5,
21	14.0,	258.3,	236.8,	-226.2,	-53.0,	22	14.0,	261.7,	247.2,	-220.3,	-67.9,
23	14.0,	257.2,	250.1,	-207.6,	-80.8,	24	14.0,	244.9,	246.2,	-188.7,	-91.2,
25	14.0,	225.2,	238.8,	-164.0,	-98.8,	26	14.0,	198.6,	224.0,	-134.3,	-103.4,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	14.0,	219.2,	247.0,	-87.0,	-115.7,	30	14.0,	236.8,	258.3,	-76.1,	-107.8,
31	14.0,	247.2,	261.7,	-62.9,	-96.6,	32	14.0,	250.1,	257.2,	-47.8,	-82.6,
33	14.0,	246.2,	244.9,	-31.3,	-65.5,	34	14.0,	238.8,	225.2,	-13.8,	-44.6,
35	14.0,	224.0,	198.6,	4.1,	-22.3,	36	14.0,	205.0,	186.4,	19.4,	-0.6,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-174.0,	17.4,	2	14.0,	247.0,	219.2,	-187.2,	1.0,

3	14.0,	258.3,	236.8,	-194.8,	-15.5,	4	14.0,	261.7,	247.2,	-196.4,	-31.6,
5	14.0,	257.2,	250.1,	-192.1,	-46.6,	6	14.0,	244.9,	246.2,	-182.8,	-60.3,
7	14.0,	225.2,	238.8,	-171.8,	-72.1,	8	14.0,	198.6,	224.0,	-155.6,	-81.8,
9	14.0,	186.4,	205.0,	-134.6,	-81.2,	10	14.0,	195.0,	228.2,	-131.6,	-76.5,
11	14.0,	219.2,	247.0,	-124.5,	-77.6,	12	14.0,	236.8,	258.3,	-113.6,	-76.4,
13	14.0,	247.2,	261.7,	-99.3,	-72.8,	14	14.0,	250.1,	257.2,	-82.0,	-67.1,
15	14.0,	246.2,	244.9,	-62.1,	-59.7,	16	14.0,	238.8,	225.2,	-40.4,	-52.4,
17	14.0,	224.0,	198.6,	-17.5,	-43.6,	18	14.0,	205.0,	186.4,	-11.9,	-32.1,
19	14.0,	228.2,	195.0,	-21.0,	-17.4,	20	14.0,	247.0,	219.2,	-32.0,	-1.0,
21	14.0,	258.3,	236.8,	-42.0,	15.5,	22	14.0,	261.7,	247.2,	-50.8,	31.6,
23	14.0,	257.2,	250.1,	-58.0,	46.6,	24	14.0,	244.9,	246.2,	-63.4,	60.3,
25	14.0,	225.2,	238.8,	-67.0,	72.1,	26	14.0,	198.6,	224.0,	-68.4,	81.8,
27	14.0,	186.4,	205.0,	-70.4,	81.2,	28	14.0,	195.0,	228.2,	-96.6,	76.5,
29	14.0,	219.2,	247.0,	-122.5,	77.6,	30	14.0,	236.8,	258.3,	-144.7,	76.4,
31	14.0,	247.2,	261.7,	-162.4,	72.8,	32	14.0,	250.1,	257.2,	-175.3,	67.1,
33	14.0,	246.2,	244.9,	-182.8,	59.7,	34	14.0,	238.8,	225.2,	-184.7,	52.4,
35	14.0,	224.0,	198.6,	-181.0,	43.6,	36	14.0,	205.0,	186.4,	-174.4,	32.1,

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\*

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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* DIRECTION SPECIFIC BUILDING DIMENSIONS \*\*\*

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	14.0,	228.2,	195.0,	-160.9,	-75.1,	2	14.0,	247.0,	219.2,	-158.2,	-87.9,
3	14.0,	258.3,	236.8,	-150.8,	-98.0,	4	14.0,	261.7,	247.2,	-138.8,	-105.2,
5	14.0,	257.2,	250.1,	-122.6,	-109.1,	6	14.0,	244.9,	246.2,	-103.5,	-109.8,
7	14.0,	225.2,	238.8,	-85.1,	-107.1,	8	14.0,	198.6,	224.0,	-64.1,	-101.1,
9	14.0,	186.4,	205.0,	-41.2,	-84.4,	10	14.0,	195.0,	228.2,	-39.0,	-63.4,
11	14.0,	219.2,	247.0,	-35.6,	-48.6,	12	14.0,	236.8,	258.3,	-31.1,	-32.4,
13	14.0,	247.2,	261.7,	-25.7,	-15.2,	14	14.0,	250.1,	257.2,	-19.5,	2.5,
15	14.0,	246.2,	244.9,	-12.7,	19.7,	16	14.0,	238.8,	225.2,	-5.5,	34.3,
17	14.0,	224.0,	198.6,	1.8,	47.9,	18	14.0,	205.0,	186.4,	-8.8,	61.3,
19	14.0,	228.2,	195.0,	-34.1,	75.1,	20	14.0,	247.0,	219.2,	-61.0,	87.9,
21	14.0,	258.3,	236.8,	-86.0,	98.0,	22	14.0,	261.7,	247.2,	-108.4,	105.2,
23	14.0,	257.2,	250.1,	-127.5,	109.1,	24	14.0,	244.9,	246.2,	-142.8,	109.8,
25	14.0,	225.2,	238.8,	-153.7,	107.1,	26	14.0,	198.6,	224.0,	-159.9,	101.1,
27	14.0,	186.4,	205.0,	-163.8,	84.4,	28	14.0,	195.0,	228.2,	-189.2,	63.4,
29	14.0,	219.2,	247.0,	-211.4,	48.6,	30	14.0,	236.8,	258.3,	-227.2,	32.4,
31	14.0,	247.2,	261.7,	-236.1,	15.2,	32	14.0,	250.1,	257.2,	-237.7,	-2.5,
33	14.0,	246.2,	244.9,	-232.2,	-19.7,	34	14.0,	238.8,	225.2,	-219.6,	-34.3,
35	14.0,	224.0,	198.6,	-200.4,	-47.9,	36	14.0,	205.0,	186.4,	-177.6,	-61.3,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
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1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	0.0,	0.0,	0.0,	0.0,	0.0,	12	0.0,	0.0,	0.0,	0.0,	0.0,
13	0.0,	0.0,	0.0,	0.0,	0.0,	14	0.0,	0.0,	0.0,	0.0,	0.0,
15	0.0,	0.0,	0.0,	0.0,	0.0,	16	0.0,	0.0,	0.0,	0.0,	0.0,
17	0.0,	0.0,	0.0,	0.0,	0.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	14.0,	186.4,	205.0,	-256.0,	96.5,	28	14.0,	195.0,	228.2,	-282.1,	59.2,
29	14.0,	219.2,	247.0,	-302.2,	28.4,	30	14.0,	236.8,	258.3,	-313.1,	-3.2,
31	14.0,	247.2,	261.7,	-314.4,	-34.8,	32	14.0,	250.1,	257.2,	-306.2,	-65.3,
33	14.0,	246.2,	244.9,	-288.8,	-93.5,	34	14.0,	238.8,	225.2,	-262.5,	-116.8,
35	0.0,	0.0,	0.0,	0.0,	0.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2040-2053 ***      00:18:54
                                                                                                     PAGE 22

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*** MODELOPTs:   RegDEFAULT CONC  ELEV  URBAN  ADJ_U*

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*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

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*** X-COORDINATES OF GRID ***
(METERS)

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479016.1, 479088.4, 479160.7, 479233.0, 479305.3, 479377.6, 479449.9, 479522.2, 479594.5, 479666.8,
479739.1, 479811.4, 479883.7, 479956.0, 480028.3, 480100.6, 480172.9, 480245.2, 480317.5, 480389.8,
480462.1,

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*** Y-COORDINATES OF GRID ***
(METERS)

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3742296.2, 3742363.9, 3742431.5, 3742499.2, 3742566.8, 3742634.5, 3742702.1, 3742769.8, 3742837.5, 3742905.1,
3742972.8, 3743040.4, 3743108.1, 3743175.8, 3743243.4, 3743311.1, 3743378.8, 3743446.4, 3743514.1, 3743581.7,
3743649.4,

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2040-2053 ***      00:18:54
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*** MODELOPTs:   RegDEFAULT CONC  ELEV  URBAN  ADJ_U*

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*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

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* ELEVATION HEIGHTS IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)								
	479016.09	479088.39	479160.69	479232.99	479305.29	479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	440.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\*      00:18:54  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* NETWORK ID: UCART1    ;    NETWORK TYPE: GRIDCART \*\*\*

\* ELEVATION HEIGHTS IN METERS \*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40
3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30

3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2040-2053 ***      00:18:54
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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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* ELEVATION HEIGHTS IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)		
	480317.49	480389.79	480462.09
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3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

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*** AERMOD - VERSION 21112 ***      *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***      08/17/21
*** AERMET - VERSION 16216 ***      *** 19370 DPM Concentrations - 2040-2053 ***      00:18:54
                                                                                                     PAGE 26

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* HILL HEIGHT SCALES IN METERS \*

Y-COORD (METERS)	479016.09	479088.39	479160.69	479232.99	479305.29	479377.59	479449.89	479522.19	479594.49
3743649.39	442.80	444.00	444.00	443.60	443.20	442.90	442.60	440.40	439.20
3743581.73	443.30	443.70	443.60	443.20	442.90	442.70	442.30	440.50	440.50
3743514.07	443.20	443.80	443.80	443.70	443.20	443.10	441.40	440.40	440.50
3743446.41	443.40	443.70	443.70	443.30	442.90	442.70	440.90	440.30	439.70
3743378.75	442.50	443.80	443.60	443.20	443.00	442.70	442.10	440.90	440.30
3743311.09	444.30	443.60	443.10	442.50	442.10	441.70	441.00	440.90	440.70
3743243.43	444.50	443.80	443.60	442.50	442.50	442.00	441.00	441.30	441.40
3743175.77	444.80	443.90	443.10	442.60	442.60	442.30	441.80	441.00	441.10
3743108.11	444.60	443.80	442.90	442.80	442.60	442.40	442.00	441.20	441.00
3743040.45	444.50	443.80	443.00	442.80	442.60	442.30	442.20	441.90	441.50
3742972.79	444.10	443.70	443.10	442.80	442.40	442.20	442.00	441.70	441.50
3742905.13	443.60	443.60	442.80	442.60	442.30	442.00	441.90	441.70	441.40
3742837.47	443.40	443.10	443.00	442.30	442.00	442.20	442.10	441.70	441.10
3742769.81	442.70	442.60	442.60	441.90	441.60	441.90	441.70	441.30	441.00
3742702.15	442.20	442.40	442.00	441.60	441.20	441.70	441.00	440.70	440.40
3742634.49	441.80	442.00	441.80	441.60	441.10	441.10	440.60	440.70	440.50
3742566.83	441.60	441.50	441.40	441.20	440.90	440.70	440.30	440.40	440.20
3742499.17	441.30	441.10	441.00	441.00	440.60	440.60	440.60	440.10	439.90
3742431.51	441.00	440.90	441.50	441.90	440.30	440.00	440.20	440.30	439.70
3742363.85	440.80	440.70	441.40	441.60	440.10	439.70	440.00	440.20	440.10
3742296.19	440.50	440.60	440.60	440.30	439.80	439.40	439.70	440.00	440.00

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
\*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\*      00:18:54  
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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)	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	439.40	439.30	439.40	439.70	440.20	440.10	439.90	439.90	439.80
3743581.73	440.30	439.70	439.40	439.50	440.00	439.90	439.80	439.80	439.70
3743514.07	440.50	440.30	439.70	439.70	439.90	439.80	439.70	439.70	439.70
3743446.41	439.70	439.80	439.50	439.70	439.90	439.70	439.60	439.60	439.60
3743378.75	440.50	440.50	439.70	440.00	439.90	439.60	439.50	439.50	439.40
3743311.09	440.60	440.50	440.40	440.60	440.20	439.90	439.60	439.40	439.30
3743243.43	441.30	440.80	440.50	440.80	440.30	440.00	439.70	439.40	439.20
3743175.77	441.00	440.90	440.80	440.90	440.60	440.10	439.80	439.60	439.40

3743108.11	440.90	441.00	441.00	441.00	440.60	440.30	440.00	439.50	439.20
3743040.45	441.30	441.10	440.70	440.70	440.30	440.10	440.00	439.50	439.20
3742972.79	441.00	440.80	440.60	440.50	440.10	439.80	439.60	439.20	439.30
3742905.13	441.10	440.90	440.60	440.50	440.10	439.70	439.30	438.90	438.80
3742837.47	441.00	440.80	440.50	440.50	440.00	439.60	439.20	438.90	438.80
3742769.81	440.40	440.50	440.30	440.30	439.90	439.70	439.30	438.90	438.80
3742702.15	440.10	440.30	440.30	440.40	440.00	439.70	439.30	438.90	439.20
3742634.49	440.20	439.60	440.40	440.30	440.00	439.70	439.20	438.90	438.90
3742566.83	440.00	439.70	438.40	440.00	439.90	439.70	439.30	439.20	439.00
3742499.17	439.80	439.80	440.10	440.00	439.70	439.60	439.50	439.40	439.20
3742431.51	438.70	438.90	439.70	440.10	439.90	439.70	439.60	439.50	439.30
3742363.85	439.30	438.10	438.10	439.90	440.00	439.70	439.60	439.40	439.30
3742296.19	439.50	438.70	437.70	439.70	439.70	439.50	439.40	439.20	439.10

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*** AERMOT - VERSION 21112 ***   *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***   08/17/21
*** AERMET - VERSION 16216 ***   *** 19370 DPM Concentrations - 2040-2053 ***   00:18:54
                                     PAGE 28

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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)	480317.49	480389.79	480462.09
3743649.39	439.70	438.30	439.70
3743581.73	439.60	439.80	439.30
3743514.07	439.50	439.50	438.20
3743446.41	439.50	439.40	439.00
3743378.75	439.40	439.30	439.20
3743311.09	439.30	439.30	439.20
3743243.43	439.70	440.10	439.10
3743175.77	439.50	439.70	439.00
3743108.11	439.30	439.00	438.90
3743040.45	439.30	439.00	438.80
3742972.79	438.80	438.70	438.70
3742905.13	438.80	438.70	438.60
3742837.47	438.70	438.60	438.50
3742769.81	438.60	438.50	438.40
3742702.15	438.70	438.50	438.50
3742634.49	438.70	438.60	438.60
3742566.83	439.10	439.20	438.50
3742499.17	439.10	438.70	438.50
3742431.51	439.10	438.90	438.70
3742363.85	439.00	438.70	438.50
3742296.19	438.80	438.50	438.30

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*** AERMOT - VERSION 21112 ***   *** C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria ***   08/17/21
*** AERMET - VERSION 16216 ***   *** 19370 DPM Concentrations - 2040-2053 ***   00:18:54

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(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\* 00:18:54
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\* \*\*\* PAGE 32

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

Surface file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.SFC Met Version: 16216
Profile file: E:\New MET data\PERI\_V9\_ADJU\PERI\_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

Table with 18 columns: 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. It contains 24 rows of meteorological data for the first 24 hours of the year 2010.

First hour of profile data

Table with 11 columns: YR MO DY HR, HEIGHT F, WDIR, WSPD, AMB\_TMP, sigmaA, sigmaW, sigmaV. It contains one row of profile data for the first hour of the year 2010.

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 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21
\*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\* 00:18:54
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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): L0008286 , L0008287 , L0008288 , L0008289 , L0008290 ,
L0008291 , L0008292 , L0008293 , L0008294 , L0008295 , L0008296 , L0008297 , L0008298 ,
L0008299 , L0008300 , L0008301 , L0008302 , L0008303 , L0008304 , L0008305 , L0008306 ,
L0008307 , L0008308 , L0008309 , L0008310 , L0008311 , L0008312 , L0008313 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Table with 10 columns: Y-COORD (METERS), X-COORD (METERS), and 8 columns of concentration values. Rows range from Y=3743649.39 to Y=3742296.19.

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21
\*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\* 00:18:54
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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): L0008286 , L0008287 , L0008288 , L0008289 , L0008290 ,  
 L0008291 , L0008292 , L0008293 , L0008294 , L0008295 , L0008296 , L0008297 , L0008298 ,  
 L0008299 , L0008300 , L0008301 , L0008302 , L0008303 , L0008304 , L0008305 , L0008306 ,  
 L0008307 , L0008308 , L0008309 , L0008310 , L0008311 , L0008312 , L0008313 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS)	X-COORD (METERS)								
	479666.79	479739.09	479811.39	479883.69	479955.99	480028.29	480100.59	480172.89	480245.19
3743649.39	0.00052	0.00051	0.00050	0.00050	0.00046	0.00039	0.00033	0.00028	0.00023
3743581.73	0.00063	0.00063	0.00064	0.00079	0.00063	0.00047	0.00038	0.00031	0.00026
3743514.07	0.00077	0.00077	0.00080	0.00139	0.00087	0.00056	0.00043	0.00035	0.00028
3743446.41	0.00094	0.00093	0.00096	0.00161	0.00101	0.00064	0.00048	0.00038	0.00030
3743378.75	0.00116	0.00115	0.00114	0.00183	0.00110	0.00070	0.00052	0.00041	0.00032
3743311.09	0.00145	0.00144	0.00137	0.00263	0.00115	0.00075	0.00055	0.00043	0.00034
3743243.43	0.00185	0.00190	0.00166	0.00307	0.00120	0.00078	0.00058	0.00044	0.00035
3743175.77	0.00252	0.00298	0.00231	0.00362	0.00123	0.00080	0.00059	0.00045	0.00036
3743108.11	0.00352	0.00343	0.00329	0.00459	0.00123	0.00079	0.00059	0.00046	0.00037
3743040.45	0.00289	0.00301	0.00240	0.00284	0.00127	0.00079	0.00059	0.00046	0.00037
3742972.79	0.00258	0.00303	0.00229	0.00273	0.00128	0.00079	0.00059	0.00046	0.00037
3742905.13	0.00332	0.00333	0.00267	0.00326	0.00123	0.00079	0.00058	0.00045	0.00036
3742837.47	0.00201	0.00305	0.00310	0.00195	0.00118	0.00080	0.00059	0.00046	0.00036
3742769.81	0.00122	0.00174	0.00209	0.00170	0.00118	0.00083	0.00060	0.00046	0.00036
3742702.15	0.00089	0.00116	0.00146	0.00143	0.00112	0.00083	0.00062	0.00047	0.00037
3742634.49	0.00070	0.00086	0.00107	0.00115	0.00101	0.00080	0.00061	0.00047	0.00037
3742566.83	0.00056	0.00068	0.00080	0.00091	0.00087	0.00073	0.00058	0.00046	0.00036
3742499.17	0.00047	0.00055	0.00065	0.00072	0.00072	0.00065	0.00054	0.00044	0.00035
3742431.51	0.00039	0.00045	0.00052	0.00058	0.00060	0.00056	0.00049	0.00040	0.00033
3742363.85	0.00033	0.00038	0.00042	0.00047	0.00049	0.00047	0.00043	0.00037	0.00031
3742296.19	0.00029	0.00032	0.00035	0.00038	0.00040	0.00040	0.00037	0.00033	0.00028

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*      08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\*      00:18:54  
 \*\*\* MODELOPTs:      RegDFAULT      CONC      ELEV      URBAN      ADJ\_U\*      PAGE 35

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0008286 , L0008287 , L0008288 , L0008289 , L0008290 ,  
 L0008291 , L0008292 , L0008293 , L0008294 , L0008295 , L0008296 , L0008297 , L0008298 ,  
 L0008299 , L0008300 , L0008301 , L0008302 , L0008303 , L0008304 , L0008305 , L0008306 ,  
 L0008307 , L0008308 , L0008309 , L0008310 , L0008311 , L0008312 , L0008313 , . . .

\*\*\* NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF DPM IN MICROGRAMS/M\*\*3 \*\*

Y-COORD | X-COORD (METERS)

(METERS) | 480317.49 480389.79 480462.09

3743649.39	0.00019	0.00016	0.00014
3743581.73	0.00021	0.00018	0.00015
3743514.07	0.00023	0.00019	0.00016
3743446.41	0.00025	0.00020	0.00017
3743378.75	0.00026	0.00022	0.00018
3743311.09	0.00028	0.00023	0.00019
3743243.43	0.00029	0.00024	0.00020
3743175.77	0.00029	0.00024	0.00020
3743108.11	0.00030	0.00024	0.00020
3743040.45	0.00030	0.00025	0.00020
3742972.79	0.00030	0.00025	0.00020
3742905.13	0.00030	0.00024	0.00020
3742837.47	0.00029	0.00024	0.00020
3742769.81	0.00029	0.00024	0.00020
3742702.15	0.00029	0.00024	0.00020
3742634.49	0.00029	0.00024	0.00020
3742566.83	0.00029	0.00024	0.00019
3742499.17	0.00028	0.00023	0.00019
3742431.51	0.00027	0.00022	0.00018
3742363.85	0.00025	0.00021	0.00018
3742296.19	0.00024	0.00020	0.00017

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\* 00:18:54  
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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): L0008286 , L0008287 , L0008288 , L0008289 , L0008290 ,  
 L0008291 , L0008292 , L0008293 , L0008294 , L0008295 , L0008296 , L0008297 , L0008298 ,  
 L0008299 , L0008300 , L0008301 , L0008302 , L0008303 , L0008304 , L0008305 , L0008306 ,  
 L0008307 , L0008308 , L0008309 , L0008310 , L0008311 , L0008312 , L0008313 , . . .

\*\*\* 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	
479517.63	3743087.52	0.00149	479625.84	3742903.49	0.00224	
479747.94	3742702.04	0.00120	479941.63	3742746.07	0.00125	
480129.11	3743129.41	0.00053	480038.90	3743313.86	0.00072	
479770.81	3743365.76	0.00118				

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\* 08/17/21  
 \*\*\* AERMET - VERSION 16216 \*\*\* 19370 DPM Concentrations - 2040-2053 \*\*\* 00:18:54  
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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 ( 479883.69, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00362 AT ( 479883.69, 3743175.77, 440.90, 440.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00352 AT ( 479666.79, 3743108.11, 440.90, 440.90, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00343 AT ( 479739.09, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00333 AT ( 479739.09, 3742905.13, 440.90, 440.90, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00332 AT ( 479666.79, 3742905.13, 441.10, 441.10, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00329 AT ( 479811.39, 3743108.11, 441.00, 441.00, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00326 AT ( 479883.69, 3742905.13, 440.50, 440.50, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00319 AT ( 479594.49, 3743040.45, 441.50, 441.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00310 AT ( 479811.39, 3742837.47, 440.50, 440.50, 0.00)	GC	UCART1

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Users\Cate\Desktop\19370\AQ\HRA\19370 Redlands Ave West Industria \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\* 19370 DPM Concentrations - 2040-2053 \*\*\*

08/17/21  
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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 10 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 \*\*\*

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***** WARNING MESSAGES *****
SO W320 946 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 947 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 948 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 949 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 950 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 951 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 1189 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 1189 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

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*****
*** AERMOD Finishes Successfully ***
*****

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EMFAC2017 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)
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
South Coast	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
South Coast	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
South Coast	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
South Coast	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
South Coast	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
South Coast	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
South Coast	Annual	MHDT	DSL	Aggregated	35	0.003935	0.003951	0.003952	0.003939	0.003919	0.00391	0.0039	0.003886	0.003869	0.003854	0.003842	0.003827
South Coast	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
South Coast	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
South Coast	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
South Coast	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 2017 EMFAC only has up to year 2050 data available.



## **APPENDIX D**

### **CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS AND EMFAC DATA**

19370 Redlands Ave West 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**

**19370 Redlands Ave West 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	334.45	1000sqft	7.59	334,447.00	0
Other Asphalt Surfaces	7.38	Acre	7.38	321,472.80	0
Other Non-Asphalt Surfaces	103.44	1000sqft	2.37	103,440.00	0
Parking Lot	311.00	Space	2.80	124,400.00	0

**1.2 Other Project Characteristics**

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

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - 20.14 acres w/ 334.447 TSF warehouse (w/ 4 TSF mezzanine), 103.44 TSF landscaping, 127 auto spaces & 184 trailer parking spaces, & remainder site paving of on-site roadways/loading dock areas etc. (~7.38 ac).

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

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~60%; therefore, ~60% more equipment added to default CalEEMod equipment list for building construction.

Grading - Site anticipated to balance.

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

Sequestration - ~172 new trees per landscape plans.

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

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site ~0.27 miles east of RTA Rte19 stop Perris FS Ensenada & ~3.03 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.

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

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	370.00	150.00
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
tblLandUse	LotAcreage	7.68	7.59
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	172.00
tblVehicleTrips	CNW_TTP	41.00	73.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	27.00
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	0.5995	3.1525	3.5779	8.8700e-003	0.5190	0.1347	0.6537	0.1605	0.1265	0.2870	0.0000	798.5454	798.5454	0.1063	0.0328	810.9787
2023	0.6779	0.1672	0.2472	6.3000e-004	0.0343	6.9000e-003	0.0412	9.2200e-003	6.5700e-003	0.0158	0.0000	57.4798	57.4798	5.1700e-003	2.4000e-003	58.3255
<b>Maximum</b>	<b>0.6779</b>	<b>3.1525</b>	<b>3.5779</b>	<b>8.8700e-003</b>	<b>0.5190</b>	<b>0.1347</b>	<b>0.6537</b>	<b>0.1605</b>	<b>0.1265</b>	<b>0.2870</b>	<b>0.0000</b>	<b>798.5454</b>	<b>798.5454</b>	<b>0.1063</b>	<b>0.0328</b>	<b>810.9787</b>

**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	0.5995	3.1525	3.5779	8.8700e-003	0.4207	0.1347	0.5554	0.1215	0.1265	0.2480	0.0000	798.5449	798.5449	0.1063	0.0328	810.9782
2023	0.6779	0.1672	0.2472	6.3000e-004	0.0343	6.9000e-003	0.0412	9.2200e-003	6.5700e-003	0.0158	0.0000	57.4798	57.4798	5.1700e-003	2.4000e-003	58.3255
<b>Maximum</b>	<b>0.6779</b>	<b>3.1525</b>	<b>3.5779</b>	<b>8.8700e-003</b>	<b>0.4207</b>	<b>0.1347</b>	<b>0.5554</b>	<b>0.1215</b>	<b>0.1265</b>	<b>0.2480</b>	<b>0.0000</b>	<b>798.5449</b>	<b>798.5449</b>	<b>0.1063</b>	<b>0.0328</b>	<b>810.9782</b>

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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	0.00	0.00	0.00	0.00	17.76	0.00	14.14	22.99	0.00	12.88	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	5-1-2022	7-31-2022	1.3252	1.3252
2	8-1-2022	10-31-2022	1.2469	1.2469
3	11-1-2022	1-31-2023	2.0002	2.0002
4	2-1-2023	4-30-2023	0.0210	0.0210
		Highest	2.0002	2.0002

**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	1.4076	9.0000e-005	9.6500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0188	0.0188	5.0000e-005	0.0000	0.0200
Energy	3.6200e-003	0.0330	0.0277	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	181.2003	181.2003	0.0130	2.1400e-003	182.1632
Mobile	0.3452	2.2171	4.1873	0.0179	1.2720	0.0241	1.2961	0.3437	0.0229	0.3665	0.0000	1,701.3126	1,701.3126	0.0471	0.1678	1,752.4877
Waste						0.0000	0.0000		0.0000	0.0000	63.8163	0.0000	63.8163	3.7714	0.0000	158.1022
Water						0.0000	0.0000		0.0000	0.0000	24.5369	178.5984	203.1353	2.5353	0.0613	284.7941
<b>Total</b>	<b>1.7564</b>	<b>2.2502</b>	<b>4.2246</b>	<b>0.0181</b>	<b>1.2720</b>	<b>0.0266</b>	<b>1.2986</b>	<b>0.3437</b>	<b>0.0254</b>	<b>0.3691</b>	<b>88.3532</b>	<b>2,061.1301</b>	<b>2,149.4833</b>	<b>6.3668</b>	<b>0.2313</b>	<b>2,377.5672</b>

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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	1.4076	9.0000e-005	9.6500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0188	0.0188	5.0000e-005	0.0000	0.0200
Energy	3.6200e-003	0.0330	0.0277	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	181.2003	181.2003	0.0130	2.1400e-003	182.1632
Mobile	0.2875	1.6936	3.1858	0.0128	0.8954	0.0171	0.9125	0.2419	0.0162	0.2582	0.0000	1,215.9740	1,215.9740	0.0364	0.1219	1,253.2026
Waste						0.0000	0.0000		0.0000	0.0000	15.9541	0.0000	15.9541	0.9429	0.0000	39.5255
Water						0.0000	0.0000		0.0000	0.0000	19.6295	142.8787	162.5083	2.0282	0.0491	227.8353
<b>Total</b>	<b>1.6987</b>	<b>1.7266</b>	<b>3.2231</b>	<b>0.0130</b>	<b>0.8954</b>	<b>0.0196</b>	<b>0.9150</b>	<b>0.2419</b>	<b>0.0188</b>	<b>0.2607</b>	<b>35.5836</b>	<b>1,540.0717</b>	<b>1,575.6553</b>	<b>3.0205</b>	<b>0.1731</b>	<b>1,702.7466</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>3.28</b>	<b>23.27</b>	<b>23.71</b>	<b>28.22</b>	<b>29.61</b>	<b>26.28</b>	<b>29.54</b>	<b>29.61</b>	<b>26.16</b>	<b>29.37</b>	<b>59.73</b>	<b>25.28</b>	<b>26.70</b>	<b>52.56</b>	<b>25.15</b>	<b>28.38</b>

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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	121.7760
<b>Total</b>	<b>121.7760</b>

**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	5/1/2022	6/17/2022	5	35	
2	Building Construction	Building Construction	6/18/2022	1/15/2023	5	150	
3	Paving	Paving	12/5/2022	12/30/2022	5	20	
4	Architectural Coating	Architectural Coating	12/22/2022	2/1/2023	5	30	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 105**

**Acres of Paving: 12.55**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 501,671; Non-Residential Outdoor: 167,224; Striped Parking Area: 32,959 (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	2	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	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	371.00	145.00	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	74.00	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					0.1611	0.0000	0.1611	0.0639	0.0000	0.0639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0634	0.6798	0.5082	1.0900e-003		0.0286	0.0286		0.0263	0.0263	0.0000	95.4356	95.4356	0.0309	0.0000	96.2072
<b>Total</b>	<b>0.0634</b>	<b>0.6798</b>	<b>0.5082</b>	<b>1.0900e-003</b>	<b>0.1611</b>	<b>0.0286</b>	<b>0.1897</b>	<b>0.0639</b>	<b>0.0263</b>	<b>0.0903</b>	<b>0.0000</b>	<b>95.4356</b>	<b>95.4356</b>	<b>0.0309</b>	<b>0.0000</b>	<b>96.2072</b>

**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	1.2200e-003	9.5000e-004	0.0119	3.0000e-005	3.8500e-003	2.0000e-005	3.8700e-003	1.0200e-003	2.0000e-005	1.0400e-003	0.0000	3.0419	3.0419	8.0000e-005	8.0000e-005	3.0690
<b>Total</b>	<b>1.2200e-003</b>	<b>9.5000e-004</b>	<b>0.0119</b>	<b>3.0000e-005</b>	<b>3.8500e-003</b>	<b>2.0000e-005</b>	<b>3.8700e-003</b>	<b>1.0200e-003</b>	<b>2.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.0419</b>	<b>3.0419</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>3.0690</b>

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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**

**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					0.0628	0.0000	0.0628	0.0249	0.0000	0.0249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0634	0.6798	0.5082	1.0900e-003		0.0286	0.0286		0.0263	0.0263	0.0000	95.4354	95.4354	0.0309	0.0000	96.2071
<b>Total</b>	<b>0.0634</b>	<b>0.6798</b>	<b>0.5082</b>	<b>1.0900e-003</b>	<b>0.0628</b>	<b>0.0286</b>	<b>0.0914</b>	<b>0.0249</b>	<b>0.0263</b>	<b>0.0513</b>	<b>0.0000</b>	<b>95.4354</b>	<b>95.4354</b>	<b>0.0309</b>	<b>0.0000</b>	<b>96.2071</b>

**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	1.2200e-003	9.5000e-004	0.0119	3.0000e-005	3.8500e-003	2.0000e-005	3.8700e-003	1.0200e-003	2.0000e-005	1.0400e-003	0.0000	3.0419	3.0419	8.0000e-005	8.0000e-005	3.0690
<b>Total</b>	<b>1.2200e-003</b>	<b>9.5000e-004</b>	<b>0.0119</b>	<b>3.0000e-005</b>	<b>3.8500e-003</b>	<b>2.0000e-005</b>	<b>3.8700e-003</b>	<b>1.0200e-003</b>	<b>2.0000e-005</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.0419</b>	<b>3.0419</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>3.0690</b>

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**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	tons/yr										MT/yr					
Off-Road	0.2028	1.8332	1.8552	3.1800e-003		0.0924	0.0924		0.0874	0.0874	0.0000	272.1378	272.1378	0.0608	0.0000	273.6582
<b>Total</b>	<b>0.2028</b>	<b>1.8332</b>	<b>1.8552</b>	<b>3.1800e-003</b>		<b>0.0924</b>	<b>0.0924</b>		<b>0.0874</b>	<b>0.0874</b>	<b>0.0000</b>	<b>272.1378</b>	<b>272.1378</b>	<b>0.0608</b>	<b>0.0000</b>	<b>273.6582</b>

**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	0.0161	0.4505	0.1518	1.8500e-003	0.0641	6.1900e-003	0.0703	0.0185	5.9300e-003	0.0244	0.0000	177.7443	177.7443	1.8700e-003	0.0264	185.6509
Worker	0.0908	0.0707	0.8847	2.4500e-003	0.2854	1.4500e-003	0.2869	0.0758	1.3300e-003	0.0771	0.0000	225.7099	225.7099	6.0200e-003	6.2500e-003	227.7224
<b>Total</b>	<b>0.1069</b>	<b>0.5212</b>	<b>1.0365</b>	<b>4.3000e-003</b>	<b>0.3496</b>	<b>7.6400e-003</b>	<b>0.3572</b>	<b>0.0943</b>	<b>7.2600e-003</b>	<b>0.1016</b>	<b>0.0000</b>	<b>403.4542</b>	<b>403.4542</b>	<b>7.8900e-003</b>	<b>0.0326</b>	<b>413.3733</b>

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**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	tons/yr										MT/yr					
Off-Road	0.2028	1.8332	1.8552	3.1800e-003		0.0924	0.0924		0.0874	0.0874	0.0000	272.1375	272.1375	0.0608	0.0000	273.6578
<b>Total</b>	<b>0.2028</b>	<b>1.8332</b>	<b>1.8552</b>	<b>3.1800e-003</b>		<b>0.0924</b>	<b>0.0924</b>		<b>0.0874</b>	<b>0.0874</b>	<b>0.0000</b>	<b>272.1375</b>	<b>272.1375</b>	<b>0.0608</b>	<b>0.0000</b>	<b>273.6578</b>

**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	0.0161	0.4505	0.1518	1.8500e-003	0.0641	6.1900e-003	0.0703	0.0185	5.9300e-003	0.0244	0.0000	177.7443	177.7443	1.8700e-003	0.0264	185.6509
Worker	0.0908	0.0707	0.8847	2.4500e-003	0.2854	1.4500e-003	0.2869	0.0758	1.3300e-003	0.0771	0.0000	225.7099	225.7099	6.0200e-003	6.2500e-003	227.7224
<b>Total</b>	<b>0.1069</b>	<b>0.5212</b>	<b>1.0365</b>	<b>4.3000e-003</b>	<b>0.3496</b>	<b>7.6400e-003</b>	<b>0.3572</b>	<b>0.0943</b>	<b>7.2600e-003</b>	<b>0.1016</b>	<b>0.0000</b>	<b>403.4542</b>	<b>403.4542</b>	<b>7.8900e-003</b>	<b>0.0326</b>	<b>413.3733</b>

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**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	tons/yr										MT/yr					
Off-Road	0.0134	0.1208	0.1315	2.3000e-004		5.7400e-003	5.7400e-003		5.4300e-003	5.4300e-003	0.0000	19.4437	19.4437	4.3100e-003	0.0000	19.5513
<b>Total</b>	<b>0.0134</b>	<b>0.1208</b>	<b>0.1315</b>	<b>2.3000e-004</b>		<b>5.7400e-003</b>	<b>5.7400e-003</b>		<b>5.4300e-003</b>	<b>5.4300e-003</b>	<b>0.0000</b>	<b>19.4437</b>	<b>19.4437</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>19.5513</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9000e-004	0.0249	9.9000e-003	1.3000e-004	4.5800e-003	2.1000e-004	4.7900e-003	1.3200e-003	2.0000e-004	1.5200e-003	0.0000	12.1982	12.1982	1.2000e-004	1.8000e-003	12.7387
Worker	6.0200e-003	4.4600e-003	0.0582	1.7000e-004	0.0204	1.0000e-004	0.0205	5.4100e-003	9.0000e-005	5.5000e-003	0.0000	15.6995	15.6995	3.9000e-004	4.1000e-004	15.8318
<b>Total</b>	<b>6.8100e-003</b>	<b>0.0293</b>	<b>0.0681</b>	<b>3.0000e-004</b>	<b>0.0250</b>	<b>3.1000e-004</b>	<b>0.0253</b>	<b>6.7300e-003</b>	<b>2.9000e-004</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>27.8976</b>	<b>27.8976</b>	<b>5.1000e-004</b>	<b>2.2100e-003</b>	<b>28.5706</b>

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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	0.0134	0.1208	0.1315	2.3000e-004		5.7400e-003	5.7400e-003		5.4300e-003	5.4300e-003	0.0000	19.4437	19.4437	4.3100e-003	0.0000	19.5513
<b>Total</b>	<b>0.0134</b>	<b>0.1208</b>	<b>0.1315</b>	<b>2.3000e-004</b>		<b>5.7400e-003</b>	<b>5.7400e-003</b>		<b>5.4300e-003</b>	<b>5.4300e-003</b>	<b>0.0000</b>	<b>19.4437</b>	<b>19.4437</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>19.5513</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9000e-004	0.0249	9.9000e-003	1.3000e-004	4.5800e-003	2.1000e-004	4.7900e-003	1.3200e-003	2.0000e-004	1.5200e-003	0.0000	12.1982	12.1982	1.2000e-004	1.8000e-003	12.7387
Worker	6.0200e-003	4.4600e-003	0.0582	1.7000e-004	0.0204	1.0000e-004	0.0205	5.4100e-003	9.0000e-005	5.5000e-003	0.0000	15.6995	15.6995	3.9000e-004	4.1000e-004	15.8318
<b>Total</b>	<b>6.8100e-003</b>	<b>0.0293</b>	<b>0.0681</b>	<b>3.0000e-004</b>	<b>0.0250</b>	<b>3.1000e-004</b>	<b>0.0253</b>	<b>6.7300e-003</b>	<b>2.9000e-004</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>27.8976</b>	<b>27.8976</b>	<b>5.1000e-004</b>	<b>2.2100e-003</b>	<b>28.5706</b>

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

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0244</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0276</b>	<b>20.0276</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>

**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	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
<b>Total</b>	<b>5.2000e-004</b>	<b>4.1000e-004</b>	<b>5.1100e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3037</b>	<b>1.3037</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3153</b>



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

**3.4 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0244</b>	<b>0.1113</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.6800e-003</b>	<b>5.6800e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>20.0275</b>	<b>20.0275</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1895</b>

**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	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
<b>Total</b>	<b>5.2000e-004</b>	<b>4.1000e-004</b>	<b>5.1100e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3037</b>	<b>1.3037</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3153</b>

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**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1987					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	4.9300e-003	6.3500e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	0.8936	0.8936	6.0000e-005	0.0000	0.8951
<b>Total</b>	<b>0.1994</b>	<b>4.9300e-003</b>	<b>6.3500e-003</b>	<b>1.0000e-005</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8936</b>	<b>0.8936</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.8951</b>

**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	9.1000e-004	7.1000e-004	8.8200e-003	2.0000e-005	2.8500e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.2510	2.2510	6.0000e-005	6.0000e-005	2.2711
<b>Total</b>	<b>9.1000e-004</b>	<b>7.1000e-004</b>	<b>8.8200e-003</b>	<b>2.0000e-005</b>	<b>2.8500e-003</b>	<b>1.0000e-005</b>	<b>2.8600e-003</b>	<b>7.6000e-004</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.2510</b>	<b>2.2510</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>2.2711</b>

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**3.5 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1987					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	4.9300e-003	6.3500e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	0.8936	0.8936	6.0000e-005	0.0000	0.8951
<b>Total</b>	<b>0.1994</b>	<b>4.9300e-003</b>	<b>6.3500e-003</b>	<b>1.0000e-005</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8936</b>	<b>0.8936</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.8951</b>

**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	9.1000e-004	7.1000e-004	8.8200e-003	2.0000e-005	2.8500e-003	1.0000e-005	2.8600e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.2510	2.2510	6.0000e-005	6.0000e-005	2.2711
<b>Total</b>	<b>9.1000e-004</b>	<b>7.1000e-004</b>	<b>8.8200e-003</b>	<b>2.0000e-005</b>	<b>2.8500e-003</b>	<b>1.0000e-005</b>	<b>2.8600e-003</b>	<b>7.6000e-004</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.2510</b>	<b>2.2510</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>2.2711</b>

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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	0.6528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-003	0.0150	0.0208	3.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	2.9362	2.9362	1.8000e-004	0.0000	2.9406
<b>Total</b>	<b>0.6550</b>	<b>0.0150</b>	<b>0.0208</b>	<b>3.0000e-005</b>		<b>8.1000e-004</b>	<b>8.1000e-004</b>		<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.9362</b>	<b>2.9362</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.9406</b>

**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	2.7600e-003	2.0500e-003	0.0267	8.0000e-005	9.3500e-003	4.0000e-005	9.4000e-003	2.4800e-003	4.0000e-005	2.5200e-003	0.0000	7.2023	7.2023	1.8000e-004	1.9000e-004	7.2630
<b>Total</b>	<b>2.7600e-003</b>	<b>2.0500e-003</b>	<b>0.0267</b>	<b>8.0000e-005</b>	<b>9.3500e-003</b>	<b>4.0000e-005</b>	<b>9.4000e-003</b>	<b>2.4800e-003</b>	<b>4.0000e-005</b>	<b>2.5200e-003</b>	<b>0.0000</b>	<b>7.2023</b>	<b>7.2023</b>	<b>1.8000e-004</b>	<b>1.9000e-004</b>	<b>7.2630</b>

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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	0.6528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-003	0.0150	0.0208	3.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	2.9362	2.9362	1.8000e-004	0.0000	2.9406
<b>Total</b>	<b>0.6550</b>	<b>0.0150</b>	<b>0.0208</b>	<b>3.0000e-005</b>		<b>8.1000e-004</b>	<b>8.1000e-004</b>		<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>2.9362</b>	<b>2.9362</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.9406</b>

**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	2.7600e-003	2.0500e-003	0.0267	8.0000e-005	9.3500e-003	4.0000e-005	9.4000e-003	2.4800e-003	4.0000e-005	2.5200e-003	0.0000	7.2023	7.2023	1.8000e-004	1.9000e-004	7.2630
<b>Total</b>	<b>2.7600e-003</b>	<b>2.0500e-003</b>	<b>0.0267</b>	<b>8.0000e-005</b>	<b>9.3500e-003</b>	<b>4.0000e-005</b>	<b>9.4000e-003</b>	<b>2.4800e-003</b>	<b>4.0000e-005</b>	<b>2.5200e-003</b>	<b>0.0000</b>	<b>7.2023</b>	<b>7.2023</b>	<b>1.8000e-004</b>	<b>1.9000e-004</b>	<b>7.2630</b>

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**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	tons/yr										MT/yr					
Mitigated	0.2875	1.6936	3.1858	0.0128	0.8954	0.0171	0.9125	0.2419	0.0162	0.2582	0.0000	1,215.9740	1,215.9740	0.0364	0.1219	1,253.2026
Unmitigated	0.3452	2.2171	4.1873	0.0179	1.2720	0.0241	1.2961	0.3437	0.0229	0.3665	0.0000	1,701.3126	1,701.3126	0.0471	0.1678	1,752.4877

**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	605.35	605.35	605.35	3,254,747	2,291,122
<b>Total</b>	<b>605.35</b>	<b>605.35</b>	<b>605.35</b>	<b>3,254,747</b>	<b>2,291,122</b>

**4.3 Trip Type Information**

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**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	40.00	8.40	6.90	27.00	0.00	73.00	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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**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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145.3271	145.3271	0.0123	1.4900e-003	146.0768
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145.3271	145.3271	0.0123	1.4900e-003	146.0768
Natural Gas Mitigated	3.6200e-003	0.0330	0.0277	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.8732	35.8732	6.9000e-004	6.6000e-004	36.0864
Natural Gas Unmitigated	3.6200e-003	0.0330	0.0277	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.8732	35.8732	6.9000e-004	6.6000e-004	36.0864



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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**

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	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	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	0.0000
Unrefrigerated Warehouse-No Rail	672238	3.6200e-003	0.0330	0.0277	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.8732	35.8732	6.9000e-004	6.6000e-004	36.0864	
<b>Total</b>		<b>3.6200e-003</b>	<b>0.0330</b>	<b>0.0277</b>	<b>2.0000e-004</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>35.8732</b>	<b>35.8732</b>	<b>6.9000e-004</b>	<b>6.6000e-004</b>	<b>36.0864</b>	

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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	672238	3.6200e-003	0.0330	0.0277	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	35.8732	35.8732	6.9000e-004	6.6000e-004	36.0864
<b>Total</b>		<b>3.6200e-003</b>	<b>0.0330</b>	<b>0.0277</b>	<b>2.0000e-004</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>35.8732</b>	<b>35.8732</b>	<b>6.9000e-004</b>	<b>6.6000e-004</b>	<b>36.0864</b>

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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	43540	7.7216	6.5000e-004	8.0000e-005	7.7615
Unrefrigerated Warehouse-No Rail	775917	137.6054	0.0116	1.4100e-003	138.3153
<b>Total</b>		<b>145.3271</b>	<b>0.0123</b>	<b>1.4900e-003</b>	<b>146.0768</b>

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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	43540	7.7216	6.5000e-004	8.0000e-005	7.7615
Unrefrigerated Warehouse-No Rail	775917	137.6054	0.0116	1.4100e-003	138.3153
<b>Total</b>		<b>145.3271</b>	<b>0.0123</b>	<b>1.4900e-003</b>	<b>146.0768</b>

**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	1.4076	9.0000e-005	9.6500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0188	0.0188	5.0000e-005	0.0000	0.0200
Unmitigated	1.4076	9.0000e-005	9.6500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0188	0.0188	5.0000e-005	0.0000	0.0200

**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	0.1627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.9000e-004	9.0000e-005	9.6500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0188	0.0188	5.0000e-005	0.0000	0.0200
<b>Total</b>	<b>1.4076</b>	<b>9.0000e-005</b>	<b>9.6500e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0188</b>	<b>0.0188</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0200</b>

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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	0.1627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.9000e-004	9.0000e-005	9.6500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0188	0.0188	5.0000e-005	0.0000	0.0200
<b>Total</b>	<b>1.4076</b>	<b>9.0000e-005</b>	<b>9.6500e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0188</b>	<b>0.0188</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0200</b>

**7.0 Water Detail**

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**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	162.5083	2.0282	0.0491	227.8353
Unmitigated	203.1353	2.5353	0.0613	284.7941

**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	77.3416 / 0	203.1353	2.5353	0.0613	284.7941
<b>Total</b>		<b>203.1353</b>	<b>2.5353</b>	<b>0.0613</b>	<b>284.7941</b>

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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	61.8732 / 0	162.5083	2.0282	0.0491	227.8353
<b>Total</b>		<b>162.5083</b>	<b>2.0282</b>	<b>0.0491</b>	<b>227.8353</b>

**8.0 Waste Detail**

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**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	15.9541	0.9429	0.0000	39.5255
Unmitigated	63.8163	3.7714	0.0000	158.1022

**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	314.38	63.8163	3.7714	0.0000	158.1022
<b>Total</b>		<b>63.8163</b>	<b>3.7714</b>	<b>0.0000</b>	<b>158.1022</b>

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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	78.595	15.9541	0.9429	0.0000	39.5255
<b>Total</b>		<b>15.9541</b>	<b>0.9429</b>	<b>0.0000</b>	<b>39.5255</b>

**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	121.7760	0.0000	0.0000	121.7760

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	172	121.7760	0.0000	0.0000	121.7760
<b>Total</b>		<b>121.7760</b>	<b>0.0000</b>	<b>0.0000</b>	<b>121.7760</b>

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast AQMD	2022	HHDT	Aggregate	Aggregate	Gasoline	77.82251	1557.073	1.914672095	1914.672095	1984478.157	7970.981	13381402.09		<b>6.74</b> HHD
South Coast AQMD	2022	HHDT	Aggregate	Aggregate	Diesel	108362	1118617	1982.563485	1982563.485		13373431			
South Coast AQMD	2022	LDA	Aggregate	Aggregate	Gasoline	6542832	30915701	8178.144259	8178144.259	8226568.36	2.52E+08	254602375.4		<b>30.95</b> LDA
South Coast AQMD	2022	LDA	Aggregate	Aggregate	Diesel	58937.5	279973.4	48.42410045	48424.10045		2358230			
South Coast AQMD	2022	LDA	Aggregate	Aggregate	Electricity	127532.6	637025.4	0	0		5177709			
South Coast AQMD	2022	LDT1	Aggregate	Aggregate	Gasoline	736905.6	3399512	1031.447408	1031447.408	1031847.287	27300896	27309932.68		<b>26.47</b> LDT1
South Coast AQMD	2022	LDT1	Aggregate	Aggregate	Diesel	387.1571	1348.408	0.39987912	399.8791198		9037.122			
South Coast AQMD	2022	LDT1	Aggregate	Aggregate	Electricity	5339.042	26794.47	0	0		221507.4			
South Coast AQMD	2022	LDT2	Aggregate	Aggregate	Gasoline	2246303	10535910	3436.155557	3436155.557	3453207.618	84740129	85348125.78		<b>24.72</b> LDT2
South Coast AQMD	2022	LDT2	Aggregate	Aggregate	Diesel	14234.59	70193.22	17.05206088	17052.06088		607996.5			
South Coast AQMD	2022	LDT2	Aggregate	Aggregate	Electricity	22589.96	114302.6	0	0		734756.1			
South Coast AQMD	2022	LHDT1	Aggregate	Aggregate	Gasoline	175903.1	2620694	598.0685493	598068.5493	821513.5103	6298251	11115258.37		<b>13.53</b> LHDT1
South Coast AQMD	2022	LHDT1	Aggregate	Aggregate	Diesel	119380.7	1501659	223.444961	223444.961		4817007			
South Coast AQMD	2022	LHDT2	Aggregate	Aggregate	Gasoline	30009.92	447103.1	113.5150695	113515.0695	209067.0531	1040649	2902289.397		<b>13.88</b> LHDT2
South Coast AQMD	2022	LHDT2	Aggregate	Aggregate	Diesel	47335.63	595422.7	95.55198358	95551.98358		1861640			
South Coast AQMD	2022	MCY	Aggregate	Aggregate	Gasoline	295960.1	591920.2	56.92214589	56922.14589	56922.14589	2072370	2072370.126		<b>36.41</b> MCY
South Coast AQMD	2022	MDV	Aggregate	Aggregate	Gasoline	1579640	7302407	2793.799561	2793799.561	2842944.316	55888916	57233722.8		<b>20.13</b> MDV
South Coast AQMD	2022	MDV	Aggregate	Aggregate	Diesel	33348.92	163526.3	49.14475473	49144.75473		1344806			
South Coast AQMD	2022	MDV	Aggregate	Aggregate	Electricity	11658.48	59625.3	0	0		391944.3			
South Coast AQMD	2022	MH	Aggregate	Aggregate	Gasoline	35097.75	3511.179	64.70410395	64704.10395	76270.38211	333282.4	455641.5746		<b>5.97</b> MH
South Coast AQMD	2022	MH	Aggregate	Aggregate	Diesel	12758.81	1275.881	11.56627815	11566.27815		122359.2			
South Coast AQMD	2022	MHDT	Aggregate	Aggregate	Gasoline	25445.41	509111.8	269.2842176	269284.2176	1009568.488	1367743	9307083.084		<b>9.22</b> MHDT
South Coast AQMD	2022	MHDT	Aggregate	Aggregate	Diesel	123310	1231988	740.28427	740284.27		7939340			
South Coast AQMD	2022	OBUS	Aggregate	Aggregate	Gasoline	5959.443	119236.5	49.67589796	49675.89796	88138.04214	250653.5	576603.5972		<b>6.54</b> OBUS
South Coast AQMD	2022	OBUS	Aggregate	Aggregate	Diesel	4274.499	41607.39	38.46214418	38462.14418		325950.1			
South Coast AQMD	2022	SBUS	Aggregate	Aggregate	Gasoline	2630.829	10523.32	11.7605267	11760.5267	39328.1885	107369.8	316915.9173		<b>8.06</b> SBUS
South Coast AQMD	2022	SBUS	Aggregate	Aggregate	Diesel	6631.313	76524.43	27.5676618	27567.6618		209546.1			
South Coast AQMD	2022	UBUS	Aggregate	Aggregate	Gasoline	952.146	3808.584	18.40085629	18400.85629	18647.65249	89256	90734.08386		<b>4.87</b> UBUS
South Coast AQMD	2022	UBUS	Aggregate	Aggregate	Diesel	14.14142	56.56567	0.246796198	246.7961984		1478.086			
South Coast AQMD	2022	UBUS	Aggregate	Aggregate	Electricity	17.11694	68.46776	0	0		1343.185			

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Air District

Region: South Coast AQMD

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for VMT, trips/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Yr	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coas	2023	HHDT	Aggregate	Aggregate	Gasoline	75.10442936	8265.097	1502.689	1.936286145	1936.286145		1913466.474	8265.097	13656273.03	7.14 <b>HHD</b>
South Coas	2023	HHDT	Aggregate	Aggregate	Diesel	109818.6753	13648008	1133618	1911.530188	1911530.188			13648008		
South Coas	2023	LDA	Aggregate	Aggregate	Gasoline	6635002.295	2.53E+08	31352477	7971.24403	7971244.03		8020635.698	2.53E+08	255180358.3	31.82 <b>LDA</b>
South Coas	2023	LDA	Aggregate	Aggregate	Diesel	62492.97958	2469816	297086.6	49.3916685	49391.6685			2469816		
South Coas	2023	LDA	Aggregate	Aggregate	Electricity	150700.3971	6237106	751566	0	0			6237106		
South Coas	2023	LDT1	Aggregate	Aggregate	Gasoline	758467.6481	27812996	3504563	1023.913006	1023913.006		1024279.466	27812996	27821405.09	27.16 <b>LDT1</b>
South Coas	2023	LDT1	Aggregate	Aggregate	Diesel	360.7799144	8408.618	1256.88	0.366459477	366.4594769			8408.618		
South Coas	2023	LDT1	Aggregate	Aggregate	Electricity	7122.93373	303507.5	35798.19	0	0			303507.5		
South Coas	2023	LDT2	Aggregate	Aggregate	Gasoline	2285150.139	85272416	10723315	3338.798312	3338798.312		3356536.438	85272416	85922778.34	25.60 <b>LDT2</b>
South Coas	2023	LDT2	Aggregate	Aggregate	Diesel	15594.68309	650362.8	76635.83	17.73812611	17738.12611			650362.8		
South Coas	2023	LDT2	Aggregate	Aggregate	Electricity	28809.63735	917592.8	145405.4	0	0			917592.8		
South Coas	2023	LHDT1	Aggregate	Aggregate	Gasoline	174910.3847	6216643	2605904	583.3851736	583385.1736		811563.1022	6216643	11211395.79	13.81 <b>LHDT1</b>
South Coas	2023	LHDT1	Aggregate	Aggregate	Diesel	125545.0822	4994753	1579199	228.1779285	228177.9285			4994753		
South Coas	2023	LHDT2	Aggregate	Aggregate	Gasoline	30102.75324	1034569	448486.2	111.5753864	111575.3864		209423.5025	1034569	2969599.008	14.18 <b>LHDT2</b>
South Coas	2023	LHDT2	Aggregate	Aggregate	Diesel	50003.13116	1935030	628976.5	97.84811618	97848.11618			1935030		
South Coas	2023	MCY	Aggregate	Aggregate	Gasoline	305044.5141	2104624	610089	57.849018	57849.018		57849.018	2104624	2104623.657	36.38 <b>MCY</b>
South Coas	2023	MDV	Aggregate	Aggregate	Gasoline	1589862.703	55684188	7354860	2693.883526	2693883.526		2744536.341	55684188	57109879.73	20.81 <b>MDV</b>
South Coas	2023	MDV	Aggregate	Aggregate	Diesel	36128.1019	1425691	176566.9	50.65281491	50652.81491			1425691		
South Coas	2023	MDV	Aggregate	Aggregate	Electricity	16376.67653	537591.7	83475.95	0	0			537591.7		
South Coas	2023	MH	Aggregate	Aggregate	Gasoline	34679.50542	330042.9	3469.338	63.26295123	63262.95123		74893.26955	330042.9	454344.9436	6.07 <b>MH</b>
South Coas	2023	MH	Aggregate	Aggregate	Diesel	13122.69387	124302	1312.269	11.63031832	11630.31832			124302		
South Coas	2023	MHDT	Aggregate	Aggregate	Gasoline	25624.3151	1363694	512691.3	265.2060557	265206.0557		989975.6425	1363694	9484317.768	9.58 <b>MHDT</b>
South Coas	2023	MHDT	Aggregate	Aggregate	Diesel	122124.488	8120623	1221858	724.7695868	724769.5868			8120623		
South Coas	2023	OBUS	Aggregate	Aggregate	Gasoline	5955.291639	245774	119153.5	48.07750689	48077.50689		86265.88761	245774	579743.8353	6.72 <b>OBUS</b>
South Coas	2023	OBUS	Aggregate	Aggregate	Diesel	4286.940093	333969.8	41558.29	38.18838072	38188.38072			333969.8		
South Coas	2023	SBUS	Aggregate	Aggregate	Gasoline	2783.643068	112189.6	11134.57	12.19474692	12194.74692		39638.85935	112189.6	323043.5203	8.15 <b>SBUS</b>
South Coas	2023	SBUS	Aggregate	Aggregate	Diesel	6671.825716	210853.9	76991.94	27.44411242	27444.11242			210853.9		
South Coas	2023	UBUS	Aggregate	Aggregate	Gasoline	957.7686184	89782.63	3831.074	17.62416327	17624.16327		17863.66378	89782.63	91199.2533	5.11 <b>UBUS</b>
South Coas	2023	UBUS	Aggregate	Aggregate	Diesel	13.00046095	1416.622	52.00184	0.239500509	239.5005093			1416.622		
South Coas	2023	UBUS	Aggregate	Aggregate	Electricity	16.11693886	1320.163	64.46776	0	0			1320.163		



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